

SEQUENCE LISTING

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<120> METHODS OF DIAGNOSING CERVICAL CANCER

<130> VITA-008

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<151> 2002-09-09

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<150> US 02/24655
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<151> 2001-08-03

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<150> 10/080,273
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<170> FastSEQ for Windows Version 4.0

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<213> Homo sapiens

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Arg Asp Met Ala Glu Ala His Lys Glu Ala Met Ser Arg Lys Leu Gly
1 5 10 15
Gln Ser Glu Ser Gln Gly Pro Pro Arg Ala Phe Ala Lys Val Asn Ser
20 25 30
Ile Ser Pro Gly Ser Pro Ser Ile Ala Gly Leu Gln Val Asp Asp Glu
35 40 45
Ile Val Glu Phe Gly Ser Val Asn Thr Gln Asn Phe Gln Ser Leu His
50 55 60
Asn Ile Gly Ser Val Val Gln His Ser Glu Gly Ala Leu Ala Pro Thr
65 70 75 80
Ile Leu Leu Ser Val Ser Met
85

<210> 2
<211> 93
<212> PRT
<213> Homo sapiens

<400> 2
Leu Arg Lys Glu Pro Glu Ile Ile Thr Val Thr Leu Lys Lys Gln Asn
1 5 10 15
Gly Met Gly Leu Ser Ile Val Ala Ala Lys Gly Ala Gly Gln Asp Lys
20 25 30
Leu Gly Ile Tyr Val Lys Ser Val Val Lys Gly Gly Ala Ala Asp Val
35 40 45
Asp Gly Arg Leu Ala Ala Gly Asp Gln Leu Leu Ser Val Asp Gly Arg
50 55 60
Ser Leu Val Gly Leu Ser Gln Glu Arg Ala Ala Glu Leu Met Thr Arg
65 70 75 80
Thr Ser Ser Val Val Thr Leu Glu Val Ala Lys Gln Gly
85 90

<210> 3
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<212> PRT
<213> Homo sapiens

<400> 3
Leu Ile Arg Pro Ser Val Ile Ser Ile Ile Gly Leu Tyr Lys Glu Lys
1 5 10 15
Gly Lys Gly Leu Gly Phe Ser Ile Ala Gly Gly Arg Asp Cys Ile Arg
20 25 30
Gly Gln Met Gly Ile Phe Val Lys Thr Ile Phe Pro Asn Gly Ser Ala
35 40 45
Ala Glu Asp Gly Arg Leu Lys Glu Gly Asp Glu Ile Leu Asp Val Asn
50 55 60
Gly Ile Pro Ile Lys Gly Leu Thr Phe Gln Glu Ala Ile His Thr Phe
65 70 75 80
Lys Gln Ile Arg Ser Gly Leu Phe Val Leu Thr Val Arg Thr Lys Leu
85 90 95
Val Ser Pro Ser Leu Thr Asn Ser Ser
100 105

<210> 4
<211> 132
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<213> Homo sapiens

<400> 4
Gly Ile Ser Ser Leu Gly Arg Lys Thr Pro Gly Pro Lys Asp Arg Ile
1 5 10 15
Val Met Glu Val Thr Leu Asn Lys Glu Pro Arg Val Gly Leu Gly Ile
20 25 30
Gly Ala Cys Cys Leu Ala Leu Glu Asn Ser Pro Pro Gly Ile Tyr Ile
35 40 45
His Ser Leu Ala Pro Gly Ser Val Ala Lys Met Glu Ser Asn Leu Ser
50 55 60
Arg Gly Asp Gln Ile Leu Glu Val Asn Ser Val Asn Val Arg His Ala
65 70 75 80
Ala Leu Ser Lys Val His Ala Ile Leu Ser Lys Cys Pro Pro Gly Pro

	85		90		95										
Val	Arg	Leu	Val	Ile	Gly	Arg	His	Pro	Asn	Pro	Lys	Val	Ser	Glu	Gln
			100				105					110			
Glu	Met	Asp	Glu	Val	Ile	Ala	Arg	Ser	Thr	Tyr	Gln	Glu	Ser	Lys	Glu
				115				120				125			
Ala	Asn	Ser	Ser												
				130											

<210> 5
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<212> PRT
<213> Homo sapiens

	<400> 5														
Gln	Ser	Glu	Asn	Glu	Glu	Asp	Val	Cys	Phe	Ile	Val	Leu	Asn	Arg	Lys
1				5				10					15		
Glu	Gly	Ser	Gly	Leu	Gly	Phe	Ser	Val	Ala	Gly	Gly	Thr	Asp	Val	Glu
				20				25				30			
Pro	Lys	Ser	Ile	Thr	Val	His	Arg	Val	Phe	Ser	Gln	Gly	Ala	Ala	Ser
				35				40				45			
Gln	Glu	Gly	Thr	Met	Asn	Arg	Gly	Asp	Phe	Leu	Leu	Ser	Val	Asn	Gly
				50				55				60			
Ala	Ser	Leu	Ala	Gly	Leu	Ala	His	Gly	Asn	Val	Leu	Lys	Val	Leu	His
				65				70			75		80		
Gln	Ala	Gln	Leu	His	Lys	Asp	Ala	Leu	Val	Val	Ile	Lys	Lys	Gly	Met
				85				90				95			
Asp	Gln	Pro	Arg	Pro	Ser	Asn	Ser	Ser							
				100				105							

<210> 6
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<213> Homo sapiens

	<400> 6														
Leu	Gly	Arg	Ser	Val	Ala	Val	His	Asp	Ala	Leu	Cys	Val	Glu	Val	Leu
1				5				10				15			
Lys	Thr	Ser	Ala	Gly	Leu	Gly	Leu	Ser	Leu	Asp	Gly	Gly	Lys	Ser	Ser
				20				25				30			
Val	Thr	Gly	Asp	Gly	Pro	Leu	Val	Ile	Lys	Arg	Val	Tyr	Lys	Gly	Gly
				35				40				45			
Ala	Ala	Glu	Gln	Ala	Gly	Ile	Ile	Glu	Ala	Gly	Asp	Glu	Ile	Leu	Ala
				50				55				60			
Ile	Asn	Gly	Lys	Pro	Leu	Val	Gly	Leu	Met	His	Phe	Asp	Ala	Trp	Asn
				65				70			75		80		
Ile	Met	Lys	Ser	Val	Pro	Glu	Gly	Pro	Val	Gln	Leu	Leu	Ile	Arg	Lys
				85				90				95			
His	Arg	Asn	Ser	Ser											
				100											

<210> 7
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<212> PRT
<213> Homo sapiens

	<400> 7														
Gln	Thr	Val	Ile	Leu	Pro	Gly	Pro	Ala	Ala	Trp	Gly	Phe	Arg	Leu	Ser

1 5 10 15
Gly Gly Ile Asp Phe Asn Gln Pro Leu Val Ile Thr Arg Ile Thr Pro
20 25 30
Gly Ser Lys Ala Ala Ala Asn Leu Cys Pro Gly Asp Val Ile Leu
35 40 45
Ala Ile Asp Gly Phe Gly Thr Glu Ser Met Thr His Ala Asp Gly Gln
50 55 60
Asp Arg Ile Lys Ala Ala Glu Phe Ile Val
65 70

<210> 8
<211> 85
<212> PRT
<213> Homo sapiens

<400> 8
Ile Leu Val Glu Val Gln Leu Ser Gly Gly Ala Pro Trp Gly Phe Thr
1 5 10 15
Leu Lys Gly Gly Arg Glu His Gly Glu Pro Leu Val Ile Thr Lys Ile
20 25 30
Glu Glu Gly Ser Lys Ala Ala Ala Val Asp Lys Leu Leu Ala Gly Asp
35 40 45
Glu Ile Val Gly Ile Asn Asp Ile Gly Leu Ser Gly Phe Arg Gln Glu
50 55 60
Ala Ile Cys Leu Val Lys Gly Ser His Lys Thr Leu Lys Leu Val Val
65 70 75 80
Lys Arg Asn Ser Ser
85

<210> 9
<211> 104
<212> PRT
<213> Homo sapiens

<400> 9
Arg Glu Lys Pro Leu Phe Thr Arg Asp Ala Ser Gln Leu Lys Gly Thr
1 5 10 15
Phe Leu Ser Thr Thr Leu Lys Lys Ser Asn Met Gly Phe Gly Phe Thr
20 25 30
Ile Ile Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Val Lys Ser Val
35 40 45
Ile Pro Asp Gly Pro Ala Ala Gln Asp Gly Lys Met Glu Thr Gly Asp
50 55 60
Val Ile Val Tyr Ile Asn Glu Val Cys Val Leu Gly His Thr His Ala
65 70 75 80
Asp Val Val Lys Leu Phe Gln Ser Val Pro Ile Gly Gln Ser Val Asn
85 90 95
Leu Val Leu Cys Arg Gly Tyr Pro
100

<210> 10
<211> 91
<212> PRT
<213> Homo sapiens

<400> 10
Leu Ser Gly Ala Thr Gln Ala Glu Leu Met Thr Leu Thr Ile Val Lys

1	5	10	15
Gly Ala Gln Gly Phe Gly Phe Thr Ile Ala Asp Ser Pro Thr Gly Gln			
20	25	30	
Arg Val Lys Gln Ile Leu Asp Ile Gln Gly Cys Pro Gly Leu Cys Glu			
35	40	45	
Gly Asp Leu Ile Val Glu Ile Asn Gln Gln Asn Val Gln Asn Leu Ser			
50	55	60	
His Thr Glu Val Val Asp Ile Leu Lys Asp Cys Pro Ile Gly Ser Glu			
65	70	75	80
Thr Ser Leu Ile Ile His Arg Gly Gly Phe Phe			
85	90		

<210> 11
<211> 93
<212> PRT
<213> Homo sapiens

1	5	10	15
His Tyr Lys Glu Leu Asp Val His Leu Arg Arg Met Glu Ser Gly Phe			
Gly Phe Arg Ile Leu Gly Gly Asp Glu Pro Gly Gln Pro Ile Leu Ile			
20	25	30	
Gly Ala Val Ile Ala Met Gly Ser Ala Asp Arg Asp Gly Arg Leu His			
35	40	45	
Pro Gly Asp Glu Leu Val Tyr Val Asp Gly Ile Pro Val Ala Gly Lys			
50	55	60	
Thr His Arg Tyr Val Ile Asp Leu Met His His Ala Ala Arg Asn Gly			
65	70	75	80
Gln Val Asn Leu Thr Val Arg Arg Lys Val Leu Cys Gly			
85	90		

<210> 12
<211> 106
<212> PRT
<213> Homo sapiens

1	5	10	15
Glu Gly Arg Gly Ile Ser Ser His Ser Leu Gln Thr Ser Asp Ala Val			
Ile His Arg Lys Glu Asn Glu Gly Phe Gly Phe Val Ile Ile Ser Ser			
20	25	30	
Leu Asn Arg Pro Glu Ser Gly Ser Thr Ile Thr Val Pro His Lys Ile			
35	40	45	
Gly Arg Ile Ile Asp Gly Ser Pro Ala Asp Arg Cys Ala Lys Leu Lys			
50	55	60	
Val Gly Asp Arg Ile Leu Ala Val Asn Gly Gln Ser Ile Ile Asn Met			
65	70	75	80
Pro His Ala Asp Ile Val Lys Leu Ile Lys Asp Ala Gly Leu Ser Val			
85	90	95	
Thr Leu Arg Ile Ile Pro Gln Glu Glu Leu			
100	105		

<210> 13
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<213> Homo sapiens

<400> 13
Leu Ser Asp Tyr Arg Gln Pro Gln Asp Phe Asp Tyr Phe Thr Val Asp
1 5 10 15
Met Glu Lys Gly Ala Lys Gly Phe Gly Phe Ser Ile Arg Gly Gly Arg
20 25 30
Glu Tyr Lys Met Asp Leu Tyr Val Leu Arg Leu Ala Glu Asp Gly Pro
35 40 45
Ala Ile Arg Asn Gly Arg Met Arg Val Gly Asp Gln Ile Ile Glu Ile
50 55 60
Asn Gly Glu Ser Thr Arg Asp Met Thr His Ala Arg Ala Ile Glu Leu
65 70 75 80
Ile Lys Ser Gly Gly Arg Arg Val Arg Leu Leu Leu Lys Arg Gly Thr
85 90 95
Gly Gln

<210> 14
<211> 90
<212> PRT
<213> Homo sapiens

<400> 14
His Glu Ser Val Ile Gly Arg Asn Pro Glu Gly Gln Leu Gly Phe Glu
1 5 10 15
Leu Lys Gly Gly Ala Glu Asn Gly Gln Phe Pro Tyr Leu Gly Glu Val
20 25 30
Lys Pro Gly Lys Val Ala Tyr Glu Ser Gly Ser Lys Leu Val Ser Glu
35 40 45
Glu Leu Leu Leu Glu Val Asn Glu Thr Pro Val Ala Gly Leu Thr Ile
50 55 60
Arg Asp Val Leu Ala Val Ile Lys His Cys Lys Asp Pro Leu Arg Leu
65 70 75 80
Lys Cys Val Lys Gln Gly Gly Ile His Arg
85 90

<210> 15
<211> 126
<212> PRT
<213> Homo sapiens

<400> 15
Asn Leu Met Phe Arg Lys Phe Ser Leu Glu Arg Pro Phe Arg Pro Ser
1 5 10 15
Val Thr Ser Val Gly His Val Arg Gly Pro Gly Pro Ser Val Gln His
20 25 30
Thr Thr Leu Asn Gly Asp Ser Leu Thr Ser Gln Leu Thr Leu Leu Gly
35 40 45
Gly Asn Ala Arg Gly Ser Phe Val His Ser Val Lys Pro Gly Ser Leu
50 55 60
Ala Glu Lys Ala Gly Leu Arg Glu Gly His Gln Leu Leu Leu Leu Glu
65 70 75 80
Gly Cys Ile Arg Gly Glu Arg Gln Ser Val Pro Leu Asp Thr Cys Thr
85 90 95
Lys Glu Glu Ala His Trp Thr Ile Gln Arg Cys Ser Gly Pro Val Thr
100 105 110
Leu His Tyr Lys Val Asn His Glu Gly Tyr Arg Lys Leu Val
115 120 125

<210> 16
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<212> PRT
<213> Homo sapiens

<400> 16
Ile Leu Ser Gln Val Thr Met Leu Ala Phe Gln Gly Asp Ala Leu Leu
1 5 10 15
Glu Gln Ile Ser Val Ile Gly Gly Asn Leu Thr Gly Ile Phe Ile His
20 25 30
Arg Val Thr Pro Gly Ser Ala Ala Asp Gln Met Ala Leu Arg Pro Gly
35 40 45
Thr Gln Ile Val Met Val Asp Tyr Glu Ala Ser Glu Pro Leu Phe Lys
50 55 60
Ala Val Leu Glu Asp Thr Thr Leu Glu Glu Ala Val Gly Leu Leu Arg
65 70 75 80
Arg Val Asp Gly Phe Cys Cys Leu Ser Val Lys Val Asn Thr Asp Gly
85 90 95
Tyr Lys Arg Leu
100

<210> 17
<211> 90
<212> PRT
<213> Homo sapiens

<400> 17
Thr Arg Val Arg Leu Val Gln Phe Gln Lys Asn Thr Asp Glu Pro Met
1 5 10 15
Gly Ile Thr Leu Lys Met Asn Glu Leu Asn His Cys Ile Val Ala Arg
20 25 30
Ile Met His Gly Gly Met Ile His Arg Gln Gly Thr Leu His Val Gly
35 40 45
Asp Glu Ile Arg Glu Ile Asn Gly Ile Ser Val Ala Asn Gln Thr Val
50 55 60
Glu Gln Leu Gln Lys Met Leu Arg Glu Met Arg Gly Ser Ile Thr Phe
65 70 75 80
Lys Ile Val Pro Ser Tyr Arg Thr Gln Ser
85 90

<210> 18
<211> 88
<212> PRT
<213> Homo sapiens

<400> 18
Leu Glu Gln Lys Ala Val Leu Glu Gln Val Gln Leu Asp Ser Pro Leu
1 5 10 15
Gly Leu Glu Ile His Thr Thr Ser Asn Cys Gln His Phe Val Ser Gln
20 25 30
Val Asp Thr Gln Val Pro Thr Asp Ser Arg Leu Gln Ile Gln Pro Gly
35 40 45
Asp Glu Val Val Gln Ile Asn Glu Gln Val Val Val Gly Trp Pro Arg
50 55 60
Lys Asn Met Val Arg Glu Leu Leu Arg Glu Pro Ala Gly Leu Ser Leu
65 70 75 80
Val Leu Lys Lys Ile Pro Ile Pro

<210> 19
<211> 92
<212> PRT
<213> Homo sapiens

<400> 19
Gln Arg Lys Leu Val Thr Val Glu Lys Gln Asp Asn Glu Thr Phe Gly
1 5 10 15
Phe Glu Ile Gln Ser Tyr Arg Pro Gln Asn Gln Asn Ala Cys Ser Ser
20 25 30
Glu Met Phe Thr Leu Ile Cys Lys Ile Gln Glu Asp Ser Pro Ala His
35 40 45
Cys Ala Gly Leu Gln Ala Gly Asp Val Leu Ala Asn Ile Asn Gly Val
50 55 60
Ser Thr Glu Gly Phe Thr Tyr Lys Gln Val Val Asp Leu Ile Arg Ser
65 70 75 80
Ser Gly Asn Leu Leu Thr Ile Glu Thr Leu Asn Gly
85 90

<210> 20
<211> 109
<212> PRT
<213> Homo sapiens

<400> 20
Arg Cys Leu Ile Gln Thr Lys Gly Gln Arg Ser Met Asp Gly Tyr Pro
1 5 10 15
Glu Gln Phe Cys Val Arg Ile Glu Lys Asn Pro Gly Leu Gly Phe Ser
20 25 30
Ile Ser Gly Ile Ser Gly Gln Gly Asn Pro Phe Lys Pro Ser Asp
35 40 45
Lys Gly Ile Phe Val Thr Arg Val Gln Pro Asp Gly Pro Ala Ser Asn
50 55 60
Leu Leu Gln Pro Gly Asp Lys Ile Leu Gln Ala Asn Gly His Ser Phe
65 70 75 80
Val His Met Glu His Glu Lys Ala Val Leu Leu Leu Lys Ser Phe Gln
85 90 95
Asn Thr Val Asp Leu Val Ile Gln Arg Glu Leu Thr Val
100 105

<210> 21
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<212> PRT
<213> Homo sapiens

<400> 21
Ile Gln Val Asn Gly Thr Asp Ala Asp Tyr Glu Tyr Glu Glu Ile Thr
1 5 10 15
Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe Ser Ile Ala Gly Thr
20 25 30
Asp Asn Pro His Ile Gly Asp Asp Ser Ser Ile Phe Ile Thr Lys Ile
35 40 45
Ile Thr Gly Gly Ala Ala Ala Gln Asp Gly Arg Leu Arg Val Asn Asp
50 55 60
Cys Ile Leu Gln Val Asn Glu Val Asp Val Arg Asp Val Thr His Ser

65 70 75 80
Lys Ala Val Glu Ala Leu Lys Glu Ala Gly Ser Ile Val Arg Leu Tyr
 85 90 95
Val Lys Arg Arg Asn
 100

<210> 22
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<213> Homo sapiens

<400> 22
Ile Gln Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Ser Ile Ala Gly
1 5 10 15
Gly Val Gly Asn Gln His Ile Pro Gly Asp Asn Ser Ile Tyr Val Thr
20 25 30
Lys Ile Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile
35 40 45
Gly Asp Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr
50 55 60
His Glu Glu Ala Val Thr Ala Leu Lys Asn Thr Ser Asp Phe Val Tyr
65 70 75 80
Leu Lys Val Ala Lys Pro Thr Ser Met Tyr Met Asn Asp Gly Asn
85 90 95

<210> 23
<211> 85
<212> PRT
<213> Homo sapiens

<400> 23
Ile Leu His Arg Gly Ser Thr Gly Leu Gly Phe Asn Ile Val Gly Gly
1 5 10 15
Glu Asp Gly Glu Gly Ile Phe Ile Ser Phe Ile Leu Ala Gly Gly Pro
20 25 30
Ala Asp Leu Ser Gly Glu Leu Arg Lys Gly Asp Arg Ile Ile Ser Val
35 40 45
Asn Ser Val Asp Leu Arg Ala Ala Ser His Glu Gln Ala Ala Ala Ala
50 55 60
Leu Lys Asn Ala Gly Gln Ala Val Thr Ile Val Ala Gln Tyr Arg Pro
65 70 75 80
Glu Glu Tyr Ser Arg
85

<210> 24
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<212> PRT
<213> Homo sapiens

<400> 24
Ile Ser Tyr Val Asn Gly Thr Glu Ile Glu Tyr Glu Phe Glu Glu Ile
1 5 10 15
Thr Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe Ser Ile Ala Gly Gly
20 25 30
Thr Asp Asn Pro His Ile Gly Asp Asp Pro Gly Ile Phe Ile Thr Lys
35 40 45
Ile Ile Pro Gly Gly Ala Ala Ala Glu Asp Gly Arg Leu Arg Val Asn

50	55	60
Asp Cys Ile Leu Arg Val Asn Glu Val Asp Val Ser Glu Val Ser His		
65	70	75
Ser Lys Ala Val Glu Ala Leu Lys Glu Ala Gly Ser Ile Val Arg Leu		80
85	90	95
Tyr Val Arg Arg Arg		
100		

<210> 25
<211> 94
<212> PRT
<213> Homo sapiens

<400> 25			
Ile Ser Val Val Glu Ile Lys Leu Phe Lys Gly Pro Lys Gly Leu Gly			
1	5	10	15
Phe Ser Ile Ala Gly Gly Val Gly Asn Gln His Ile Pro Gly Asp Asn			
20	25	30	
Ser Ile Tyr Val Thr Lys Ile Ile Asp Gly Gly Ala Ala Gln Lys Asp			
35	40	45	
Gly Arg Leu Gln Val Gly Asp Arg Leu Leu Met Val Asn Asn Tyr Ser			
50	55	60	
Leu Glu Glu Val Thr His Glu Glu Ala Val Ala Ile Leu Lys Asn Thr			
65	70	75	80
Ser Glu Val Val Tyr Leu Lys Val Gly Asn Pro Thr Thr Ile			
85	90		

<210> 26
<211> 95
<212> PRT
<213> Homo sapiens

<400> 26			
Ile Trp Ala Val Ser Leu Glu Gly Glu Pro Arg Lys Val Val Leu His			
1	5	10	15
Lys Gly Ser Thr Gly Leu Gly Phe Asn Ile Val Gly Gly Glu Asp Gly			
20	25	30	
Glu Gly Ile Phe Val Ser Phe Ile Leu Ala Gly Gly Pro Ala Asp Leu			
35	40	45	
Ser Gly Glu Leu Gln Arg Gly Asp Gln Ile Leu Ser Val Asn Gly Ile			
50	55	60	
Asp Leu Arg Gly Ala Ser His Glu Gln Ala Ala Ala Leu Lys Gly			
65	70	75	80
Ala Gly Gln Thr Val Thr Ile Ile Ala Gln Tyr Gln Pro Glu Asp			
85	90	95	

<210> 27
<211> 102
<212> PRT
<213> Homo sapiens

<400> 27			
Gly Ile Pro Tyr Val Glu Glu Pro Arg His Val Lys Val Gln Lys Gly			
1	5	10	15
Ser Glu Pro Leu Gly Ile Ser Ile Val Ser Gly Glu Lys Gly Gly Ile			
20	25	30	
Tyr Val Ser Lys Val Thr Val Gly Ser Ile Ala His Gln Ala Gly Leu			

35	40	45
Glu Tyr Gly Asp Gln Leu Leu Glu Phe Asn Gly Ile Asn Leu Arg Ser		
50	55	60
Ala Thr Glu Gln Gln Ala Arg Leu Ile Ile Gly Gln Gln Cys Asp Thr		
65	70	75
Ile Thr Ile Leu Ala Gln Tyr Asn Pro His Val His Gln Leu Arg Asn		80
85	90	95
Ser Ser Glx Leu Thr Asp		
100		

<210> 28

<211> 103

<212> PRT

<213> Homo sapiens

<400> 28

Gly Ile Leu Ala Gly Asp Ala Asn Lys Lys Thr Leu Glu Pro Arg Val		
1	5	10
Val Phe Ile Lys Ser Gln Leu Glu Leu Gly Val His Leu Cys Gly		15
20	25	30
Gly Asn Leu His Gly Val Phe Val Ala Glu Val Glu Asp Asp Ser Pro		
35	40	45
Ala Lys Gly Pro Asp Gly Leu Val Pro Gly Asp Leu Ile Leu Glu Tyr		
50	55	60
Gly Ser Leu Asp Val Arg Asn Lys Thr Val Glu Glu Val Tyr Val Glu		
65	70	75
Met Leu Lys Pro Arg Asp Gly Val Arg Leu Lys Val Gln Tyr Arg Pro		80
85	90	95
Glu Glu Phe Ile Val Thr Asp		
100		

<210> 29

<211> 141

<212> PRT

<213> Homo sapiens

<400> 29

Pro Thr Ser Pro Glu Ile Gln Glu Leu Arg Gln Met Leu Gln Ala Pro		
1	5	10
His Phe Lys Ala Leu Leu Ser Ala His Asp Thr Ile Ala Gln Lys Asp		15
20	25	30
Phe Glu Pro Leu Leu Pro Pro Leu Pro Asp Asn Ile Pro Glu Ser Glu		
35	40	45
Glu Ala Met Arg Ile Val Cys Leu Val Lys Asn Gln Gln Pro Leu Gly		
50	55	60
Ala Thr Ile Lys Arg His Glu Met Thr Gly Asp Ile Leu Val Ala Arg		
65	70	75
Ile Ile His Gly Gly Leu Ala Glu Arg Ser Gly Leu Leu Tyr Ala Gly		80
85	90	95
Asp Lys Leu Val Glu Val Asn Gly Val Ser Val Glu Gly Leu Asp Pro		
100	105	110
Glu Gln Val Ile His Ile Leu Ala Met Ser Arg Gly Thr Ile Met Phe		
115	120	125
Lys Val Val Pro Val Ser Asp Pro Pro Val Asn Ser Ser		
130	135	140

<210> 30

<211> 97
<212> PRT
<213> Homo sapiens

<400> 30
Pro Thr Ser Pro Glu Ile Gln Glu Leu Arg Gln Met Leu Gln Ala Pro
1 5 10 15
His Phe Lys Gly Ala Thr Ile Lys Arg His Glu Met Thr Gly Asp Ile
20 25 30
Leu Val Ala Arg Ile Ile His Gly Gly Leu Ala Glu Arg Ser Gly Leu
35 40 45
Leu Tyr Ala Gly Asp Lys Leu Val Glu Val Asn Gly Val Ser Val Glu
50 55 60
Gly Leu Asp Pro Glu Gln Val Ile His Ile Leu Ala Met Ser Arg Gly
65 70 75 80
Thr Ile Met Phe Lys Val Val Pro Val Ser Asp Pro Pro Val Asn Ser
85 90 95
Ser

<210> 31
<211> 93
<212> PRT
<213> Homo sapiens

<400> 31
Leu Asn Ile Val Thr Val Thr Leu Asn Met Glu Arg His His Phe Leu
1 5 10 15
Gly Ile Ser Ile Val Gly Gln Ser Asn Asp Arg Gly Asp Gly Gly Ile
20 25 30
Tyr Ile Gly Ser Ile Met Lys Gly Gly Ala Val Ala Ala Asp Gly Arg
35 40 45
Ile Glu Pro Gly Asp Met Leu Leu Gln Val Asn Asp Val Asn Phe Glu
50 55 60
Asn Met Ser Asn Asp Asp Ala Val Arg Val Leu Arg Glu Ile Val Ser
65 70 75 80
Gln Thr Gly Pro Ile Ser Leu Thr Val Ala Lys Cys Trp
85 90

<210> 32
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<212> PRT
<213> Homo sapiens

<400> 32
Leu Asn Ile Ile Thr Val Thr Leu Asn Met Glu Lys Tyr Asn Phe Leu
1 5 10 15
Gly Ile Ser Ile Val Gly Gln Ser Asn Glu Arg Gly Asp Gly Gly Ile
20 25 30
Tyr Ile Gly Ser Ile Met Lys Gly Gly Ala Val Ala Ala Asp Gly Arg
35 40 45
Ile Glu Pro Gly Asp Met Leu Leu Gln Val Asn Asp Met Asn Phe Glu
50 55 60
Asn Met Ser Asn Asp Asp Ala Val Arg Val Leu Arg Asp Ile Val His
65 70 75 80
Lys Pro Gly Pro Ile Val Leu Thr Val Ala Lys Cys Trp Asp Pro Ser
85 90 95
Pro Gln Asn Ser

<210> 33
<211> 95
<212> PRT
<213> Homo sapiens

<400> 33

Ile	Ile	Thr	Val	Thr	Leu	Asn	Met	Glu	Lys	Tyr	Asn	Phe	Leu	Gly	Ile
1					5				10						15
Ser	Ile	Val	Gly	Gln	Ser	Asn	Glu	Arg	Gly	Asp	Gly	Gly	Ile	Tyr	Ile
			20					25						30	
Gly	Ser	Ile	Met	Lys	Gly	Gly	Ala	Val	Ala	Ala	Asp	Gly	Arg	Ile	Glu
			35				40					45			
Pro	Gly	Asp	Met	Leu	Leu	Gln	Val	Asn	Glu	Ile	Asn	Phe	Glu	Asn	Met
			50				55					60			
Ser	Asn	Asp	Asp	Ala	Val	Arg	Val	Leu	Arg	Glu	Ile	Val	His	Lys	Pro
	65				70				75					80	
Gly	Pro	Ile	Thr	Leu	Thr	Val	Ala	Lys	Cys	Trp	Asp	Pro	Ser	Pro	
			85					90						95	

<210> 34
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<212> PRT
<213> Homo sapiens

<400> 34

Thr	Thr	Gln	Gln	Ile	Asp	Leu	Gln	Gly	Pro	Gly	Pro	Trp	Gly	Phe	Arg
1					5				10					15	
Leu	Val	Gly	Arg	Lys	Asp	Phe	Glu	Gln	Pro	Leu	Ala	Ile	Ser	Arg	Val
			20				25					30			
Thr	Pro	Gly	Ser	Lys	Ala	Ala	Leu	Ala	Asn	Leu	Cys	Ile	Gly	Asp	Val
			35				40					45			
Ile	Thr	Ala	Ile	Asp	Gly	Glu	Asn	Thr	Ser	Asn	Met	Thr	His	Leu	Glu
			50			55					60				
Ala	Gln	Asn	Arg	Ile	Lys	Gly	Cys	Thr	Asp	Asn	Leu	Thr	Leu	Thr	Val
	65				70				75					80	
Ala	Arg	Ser	Glu	His	Lys	Val	Trp	Ser	Pro	Leu	Val				
			85					90							

<210> 35
<211> 89
<212> PRT
<213> Homo sapiens

<400> 35

Ile	Phe	Met	Asp	Ser	Phe	Lys	Val	Val	Leu	Glu	Gly	Pro	Ala	Pro	Trp
1					5				10					15	
Gly	Phe	Arg	Leu	Gln	Gly	Gly	Lys	Asp	Phe	Asn	Val	Pro	Leu	Ser	Ile
			20				25					30			
Ser	Arg	Leu	Thr	Pro	Gly	Gly	Lys	Ala	Ala	Gln	Ala	Gly	Val	Ala	Val
			35				40					45			
Gly	Asp	Trp	Val	Leu	Ser	Ile	Asp	Gly	Glu	Asn	Ala	Gly	Ser	Leu	Thr
			50			55					60				
His	Ile	Glu	Ala	Gln	Asn	Lys	Ile	Arg	Ala	Cys	Gly	Glu	Arg	Leu	Ser
	65				70				75					80	
Leu	Gly	Leu	Ser	Arg	Ala	Gln	Pro	Val							

<210> 36
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 36
 Gln Gly His Glu Leu Ala Lys Gln Glu Ile Arg Val Arg Val Glu Lys
 1 5 10 15
 Asp Pro Glu Leu Gly Phe Ser Ile Ser Gly Gly Val Gly Arg Gly
 20 25 30
 Asn Pro Phe Arg Pro Asp Asp Gly Ile Phe Val Thr Arg Val Gln
 35 40 45
 Pro Glu Gly Pro Ala Ser Lys Leu Leu Gln Pro Gly Asp Lys Ile Ile
 50 55 60
 Gln Ala Asn Gly Tyr Ser Phe Ile Asn Ile Glu His Gly Gln Ala Val
 65 70 75 80
 Ser Leu Leu Lys Thr Phe Gln Asn Thr Val Glu Leu Ile Ile Val Arg
 85 90 95
 Glu Val Ser Ser
 100

<210> 37
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 37
 Ile Leu Cys Cys Leu Glu Lys Gly Pro Asn Gly Tyr Gly Phe His Leu
 1 5 10 15
 His Gly Glu Lys Gly Lys Leu Gly Gln Tyr Ile Arg Leu Val Glu Pro
 20 25 30
 Gly Ser Pro Ala Glu Lys Ala Gly Leu Leu Ala Gly Asp Arg Leu Val
 35 40 45
 Glu Val Asn Gly Glu Asn Val Glu Lys Glu Thr His Gln Gln Val Val
 50 55 60
 Ser Arg Ile Arg Ala Ala Leu Asn Ala Val Arg Leu Leu Val Val Asp
 65 70 75 80
 Pro Glu Phe Ile Val Thr Asp
 85

<210> 38
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 38
 Ile Arg Leu Cys Thr Met Lys Lys Gly Pro Ser Gly Tyr Gly Phe Asn
 1 5 10 15
 Leu His Ser Asp Lys Ser Lys Pro Gly Gln Phe Ile Arg Ser Val Asp
 20 25 30
 Pro Asp Ser Pro Ala Glu Ala Ser Gly Leu Arg Ala Gln Asp Arg Ile
 35 40 45
 Val Glu Val Asn Gly Val Cys Met Glu Gly Lys Gln His Gly Asp Val
 50 55 60
 Val Ser Ala Ile Arg Ala Gly Gly Asp Glu Thr Lys Leu Leu Val Val

65	70	75	80
Asp Arg Glu Thr Asp Glu Phe Phe Met Asn Ser Ser			
85	90		

<210> 39
<211> 107
<212> PRT
<213> Homo sapiens

<400> 39
Lys Asn Pro Ser Gly Glu Leu Lys Thr Val Thr Leu Ser Lys Met Lys
1 5 10 15
Gln Ser Leu Gly Ile Ser Ile Ser Gly Gly Ile Glu Ser Lys Val Gln
20 25 30
Pro Met Val Lys Ile Glu Lys Ile Phe Pro Gly Gly Ala Ala Phe Leu
35 40 45
Ser Gly Ala Leu Gln Ala Gly Phe Glu Leu Val Ala Val Asp Gly Glu
50 55 60
Asn Leu Glu Gln Val Thr His Gln Arg Ala Val Asp Thr Ile Arg Arg
65 70 75 80
Ala Tyr Arg Asn Lys Ala Arg Glu Pro Met Glu Leu Val Val Arg Val
85 90 95
Pro Gly Pro Ser Pro Arg Pro Ser Pro Ser Asp
100 105

<210> 40
<211> 97
<212> PRT
<213> Homo sapiens

<400> 40
Glu Gly His Ser His Pro Arg Val Val Glu Leu Pro Lys Thr Glu Glu
1 5 10 15
Gly Leu Gly Phe Asn Ile Met Gly Gly Lys Glu Gln Asn Ser Pro Ile
20 25 30
Tyr Ile Ser Arg Ile Ile Pro Gly Gly Ile Ala Asp Arg His Gly Gly
35 40 45
Leu Lys Arg Gly Asp Gln Leu Leu Ser Val Asn Gly Val Ser Val Glu
50 55 60
Gly Glu His His Glu Lys Ala Val Glu Leu Leu Lys Ala Ala Gln Gly
65 70 75 80
Lys Val Lys Leu Val Val Arg Tyr Thr Pro Lys Val Leu Glu Glu Met
85 90 95
Glu

<210> 41
<211> 88
<212> PRT
<213> Homo sapiens

<400> 41
Pro Gly Ala Pro Tyr Ala Arg Lys Thr Phe Thr Ile Val Gly Asp Ala
1 5 10 15
Val Gly Trp Gly Phe Val Val Arg Gly Ser Lys Pro Cys His Ile Gln
20 25 30
Ala Val Asp Pro Ser Gly Pro Ala Ala Ala Gly Met Lys Val Cys

35	40	45
Gln Phe Val Val Ser Val Asn Gly Leu Asn Val Leu His Val Asp Tyr		
50	55	60
Arg Thr Val Ser Asn Leu Ile Leu Thr Gly Pro Arg Thr Ile Val Met		
65	70	75
Glu Val Met Glu Glu Leu Glu Cys		
85		

<210> 42
<211> 97
<212> PRT
<213> Homo sapiens

<400> 42			
Gly Gln Tyr Gly Gly Glu Thr Val Lys Ile Val Arg Ile Glu Lys Ala			
1	5	10	15
Arg Asp Ile Pro Leu Gly Ala Thr Val Arg Asn Glu Met Asp Ser Val			
20	25	30	
Ile Ile Ser Arg Ile Val Lys Gly Gly Ala Ala Glu Lys Ser Gly Leu			
35	40	45	
Leu His Glu Gly Asp Glu Val Leu Glu Ile Asn Gly Ile Glu Ile Arg			
50	55	60	
Gly Lys Asp Val Asn Glu Val Phe Asp Leu Leu Ser Asp Met His Gly			
65	70	75	80
Thr Leu Thr Phe Val Leu Ile Pro Ser Gln Gln Ile Lys Pro Pro Pro			
85	90	95	
Ala			

<210> 43
<211> 98
<212> PRT
<213> Homo sapiens

<400> 43			
Ile Leu Ala His Val Lys Gly Ile Glu Lys Glu Val Asn Val Tyr Lys			
1	5	10	15
Ser Glu Asp Ser Leu Gly Leu Thr Ile Thr Asp Asn Gly Val Gly Tyr			
20	25	30	
Ala Phe Ile Lys Arg Ile Lys Asp Gly Gly Val Ile Asp Ser Val Lys			
35	40	45	
Thr Ile Cys Val Gly Asp His Ile Glu Ser Ile Asn Gly Glu Asn Ile			
50	55	60	
Val Gly Trp Arg His Tyr Asp Val Ala Lys Lys Leu Lys Glu Leu Lys			
65	70	75	80
Lys Glu Glu Leu Phe Thr Met Lys Leu Ile Glu Pro Lys Lys Ala Phe			
85	90	95	
Glu Ile			

<210> 44
<211> 104
<212> PRT
<213> Homo sapiens

<400> 44		
Lys Pro Ser Gln Ala Ser Gly His Phe Ser Val Glu Leu Val Arg Gly		

1	5	10	15
Tyr Ala Gly Phe Gly Leu Thr Leu Gly Gly Gly Arg Asp Val Ala Gly			
20	25	30	
Asp Thr Pro Leu Ala Val Arg Gly Leu Leu Lys Asp Gly Pro Ala Gln			
35	40	45	
Arg Cys Gly Arg Leu Glu Val Gly Asp Leu Val Leu His Ile Asn Gly			
50	55	60	
Glu Ser Thr Gln Gly Leu Thr His Ala Gln Ala Val Glu Arg Ile Arg			
65	70	75	80
Ala Gly Gly Pro Gln Leu His Leu Val Ile Arg Arg Pro Leu Glu Thr			
85	90	95	
His Pro Gly Lys Pro Arg Gly Val			
100			

<210> 45

<211> 107

<212> PRT

<213> Homo sapiens

<400> 45

Pro Val Met Ser Gln Cys Ala Cys Leu Glu Glu Val His Leu Pro Asn			
1	5	10	15
Ile Lys Pro Gly Glu Gly Leu Gly Met Tyr Ile Lys Ser Thr Tyr Asp			
20	25	30	
Gly Leu His Val Ile Thr Gly Thr Thr Glu Asn Ser Pro Ala Asp Arg			
35	40	45	
Ser Gln Lys Ile His Ala Gly Asp Glu Val Ile Gln Val Asn Gln Gln			
50	55	60	
Thr Val Val Gly Trp Gln Leu Lys Asn Leu Val Lys Lys Leu Arg Glu			
65	70	75	80
Asn Pro Thr Gly Val Val Leu Leu Lys Lys Arg Pro Thr Gly Ser			
85	90	95	
Phe Asn Phe Thr Pro Glu Phe Ile Val Thr Asp			
100	105		

<210> 46

<211> 100

<212> PRT

<213> Homo sapiens

<400> 46

Leu Asp Asp Glu Glu Asp Ser Val Lys Ile Ile Arg Leu Val Lys Asn			
1	5	10	15
Arg Glu Pro Leu Gly Ala Thr Ile Lys Lys Asp Glu Gln Thr Gly Ala			
20	25	30	
Ile Ile Val Ala Arg Ile Met Arg Gly Gly Ala Ala Asp Arg Ser Gly			
35	40	45	
Leu Ile His Val Gly Asp Glu Leu Arg Glu Val Asn Gly Ile Pro Val			
50	55	60	
Glu Asp Lys Arg Pro Glu Glu Ile Ile Gln Ile Leu Ala Gln Ser Gln			
65	70	75	80
Gly Ala Ile Thr Phe Lys Ile Ile Pro Gly Ser Lys Glu Glu Thr Pro			
85	90	95	
Ser Asn Ser Ser			
100			

<210> 47

<211> 83
<212> PRT
<213> Homo sapiens

<400> 47
Val Val Glu Leu Met Lys Lys Glu Gly Thr Thr Leu Gly Leu Thr Val
1 5 10 15
Ser Gly Gly Ile Asp Lys Asp Gly Lys Pro Arg Val Ser Asn Leu Arg
20 25 30
Gln Gly Gly Ile Ala Ala Arg Ser Asp Gln Leu Asp Val Gly Asp Tyr
35 40 45
Ile Lys Ala Val Asn Gly Ile Asn Leu Ala Lys Phe Arg His Asp Glu
50 55 60
Ile Ile Ser Leu Leu Lys Asn Val Gly Glu Arg Val Val Leu Glu Val
65 70 75 80
Glu Tyr Glu

<210> 48
<211> 110
<212> PRT
<213> Homo sapiens

<400> 48
Arg Ser Ser Val Ile Phe Arg Thr Val Glu Val Thr Leu His Lys Glu
1 5 10 15
Gly Asn Thr Phe Gly Phe Val Ile Arg Gly Gly Ala His Asp Asp Arg
20 25 30
Asn Lys Ser Arg Pro Val Val Ile Thr Cys Val Arg Pro Gly Gly Pro
35 40 45
Ala Asp Arg Glu Gly Thr Ile Lys Pro Gly Asp Arg Leu Leu Ser Val
50 55 60
Asp Gly Ile Arg Leu Leu Gly Thr Thr His Ala Glu Ala Met Ser Ile
65 70 75 80
Leu Lys Gln Cys Gly Gln Glu Ala Ala Leu Leu Ile Glu Tyr Asp Val
85 90 95
Ser Val Met Asp Ser Val Ala Thr Ala Ser Gly Asn Ser Ser
100 105 110

<210> 49
<211> 106
<212> PRT
<213> Homo sapiens

<400> 49
His Val Ala Thr Ala Ser Gly Pro Leu Leu Val Glu Val Ala Lys Thr
1 5 10 15
Pro Gly Ala Ser Leu Gly Val Ala Leu Thr Thr Ser Met Cys Cys Asn
20 25 30
Lys Gln Val Ile Val Ile Asp Lys Ile Lys Ser Ala Ser Ile Ala Asp
35 40 45
Arg Cys Gly Ala Leu His Val Gly Asp His Ile Leu Ser Ile Asp Gly
50 55 60
Thr Ser Met Glu Tyr Cys Thr Leu Ala Glu Ala Thr Gln Phe Leu Ala
65 70 75 80
Asn Thr Thr Asp Gln Val Lys Leu Glu Ile Leu Pro His His Gln Thr
85 90 95
Arg Leu Ala Leu Lys Gly Pro Asn Ser Ser

100

105

<210> 50
<211> 97
<212> PRT
<213> Homo sapiens

<400> 50
Thr Glu Thr Thr Glu Val Val Leu Thr Ala Asp Pro Val Thr Gly Phe
1 5 10 15
Gly Ile Gln Leu Gln Gly Ser Val Phe Ala Thr Glu Thr Leu Ser Ser
20 25 30
Pro Pro Leu Ile Ser Tyr Ile Glu Ala Asp Ser Pro Ala Glu Arg Cys
35 40 45
Gly Val Leu Gln Ile Gly Asp Arg Val Met Ala Ile Asn Gly Ile Pro
50 55 60
Thr Glu Asp Ser Thr Phe Glu Glu Ala Ser Gln Leu Leu Arg Asp Ser
65 70 75 80
Ser Ile Thr Ser Lys Val Thr Leu Glu Ile Glu Phe Asp Val Ala Glu
85 90 95
Ser

<210> 51
<211> 101
<212> PRT
<213> Homo sapiens

<400> 51
Ala Glu Ser Val Ile Pro Ser Ser Gly Thr Phe His Val Lys Leu Pro
1 5 10 15
Lys Lys His Asn Val Glu Leu Gly Ile Thr Ile Ser Ser Pro Ser Ser
20 25 30
Arg Lys Pro Gly Asp Pro Leu Val Ile Ser Asp Ile Lys Lys Gly Ser
35 40 45
Val Ala His Arg Thr Gly Thr Leu Glu Leu Gly Asp Lys Leu Leu Ala
50 55 60
Ile Asp Asn Ile Arg Leu Asp Asn Cys Ser Met Glu Asp Ala Val Gln
65 70 75 80
Ile Leu Gln Gln Cys Glu Asp Leu Val Lys Leu Lys Ile Arg Lys Asp
85 90 95
Glu Asp Asn Ser Asp
100

<210> 52
<211> 90
<212> PRT
<213> Homo sapiens

<400> 52
Ile Tyr Thr Val Glu Leu Lys Arg Tyr Gly Gly Pro Leu Gly Ile Thr
1 5 10 15
Ile Ser Gly Thr Glu Glu Pro Phe Asp Pro Ile Ile Ile Ser Ser Leu
20 25 30
Thr Lys Gly Gly Leu Ala Glu Arg Thr Gly Ala Ile His Ile Gly Asp
35 40 45
Arg Ile Leu Ala Ile Asn Ser Ser Ser Leu Lys Gly Lys Pro Leu Ser

50	55	60
Glu Ala Ile His Leu Leu Gln Met Ala Gly Glu Thr Val Thr Leu Lys		
65	70	75
Ile Lys Lys Gln Thr Asp Ala Gln Ser Ala		
85	90	

<210> 53
<211> 95
<212> PRT
<213> Homo sapiens

1	5	10	15
Asp Ser Asp Met Glu Asp Phe Gly Phe Ser Val Ala Asp Gly Leu Leu			
20	25	30	
Glu Lys Gly Val Tyr Val Lys Asn Ile Arg Pro Ala Gly Pro Gly Asp			
35	40	45	
Leu Gly Gly Leu Lys Pro Tyr Asp Arg Leu Leu Gln Val Asn His Val			
50	55	60	
Arg Thr Arg Asp Phe Asp Cys Cys Leu Val Val Pro Leu Ile Ala Glu			
65	70	75	80
Ser Gly Asn Lys Leu Asp Leu Val Ile Ser Arg Asn Pro Leu Ala			
85	90	95	

<210> 54
<211> 88
<212> PRT
<213> Homo sapiens

1	5	10	15
Gly Arg Leu Gly Phe Glu Val Asp Ala Glu Gly Phe Val Thr His Val			
20	25	30	
Glu Arg Phe Thr Phe Ala Glu Thr Ala Gly Leu Arg Pro Gly Ala Arg			
35	40	45	
Leu Leu Arg Val Cys Gly Gln Thr Leu Pro Ser Leu Arg Pro Glu Ala			
50	55	60	
Ala Ala Gln Leu Leu Arg Ser Ala Pro Lys Val Cys Val Thr Val Leu			
65	70	75	80
Pro Pro Asp Glu Ser Gly Arg Pro			
85			

<210> 55
<211> 95
<212> PRT
<213> Homo sapiens

1	5	10	15
Ser Pro Leu Gln Phe Ser Leu Asn Gly Gly Ser Glu Lys Gly Phe Gly			
20	25	30	
Ile Phe Val Glu Gly Val Glu Pro Gly Ser Lys Ala Ala Asp Ser Gly			
35	40	45	
Leu Lys Arg Gly Asp Gln Ile Met Glu Val Asn Gly Gln Asn Phe Glu			

50	55	60
Asn Ile Thr Phe Met Lys Ala Val Glu Ile Leu Arg Asn Asn Thr His		
65	70	75
Leu Ala Leu Thr Val Lys Thr Asn Ile Phe Val Phe Lys Glu Leu		
85	90	95

<210> 56
<211> 89
<212> PRT
<213> Homo sapiens

<400> 56
Leu Glu Asn Val Ile Ala Lys Ser Leu Leu Ile Lys Ser Asn Glu Gly
1 5 10 15
Ser Tyr Gly Phe Gly Leu Glu Asp Lys Asn Lys Val Pro Ile Ile Lys
20 25 30
Leu Val Glu Lys Gly Ser Asn Ala Glu Met Ala Gly Met Glu Val Gly
35 40 45
Lys Lys Ile Phe Ala Ile Asn Gly Asp Leu Val Phe Met Arg Pro Phe
50 55 60
Asn Glu Val Asp Cys Phe Leu Lys Ser Cys Leu Asn Ser Arg Lys Pro
65 70 75 80
Leu Arg Val Leu Val Ser Thr Lys Pro
85

<210> 57
<211> 82
<212> PRT
<213> Homo sapiens

<400> 57
Pro Arg Glu Thr Val Lys Ile Pro Asp Ser Ala Asp Gly Leu Gly Phe
1 5 10 15
Gln Ile Arg Gly Phe Gly Pro Ser Val Val His Ala Val Gly Arg Gly
20 25 30
Thr Val Ala Ala Ala Ala Gly Leu His Pro Gly Gln Cys Ile Ile Lys
35 40 45
Val Asn Gly Ile Asn Val Ser Lys Glu Thr His Ala Ser Val Ile Ala
50 55 60
His Val Thr Ala Cys Arg Lys Tyr Arg Arg Pro Thr Lys Gln Asp Ser
65 70 75 80
Ile Gln

<210> 58
<211> 100
<212> PRT
<213> Homo sapiens

<400> 58
Glu Asp Phe Cys Tyr Val Phe Thr Val Glu Leu Glu Arg Gly Pro Ser
1 5 10 15
Gly Leu Gly Met Gly Leu Ile Asp Gly Met His Thr His Leu Gly Ala
20 25 30
Pro Gly Leu Tyr Ile Gln Thr Leu Leu Pro Gly Ser Pro Ala Ala Ala
35 40 45
Asp Gly Arg Leu Ser Leu Gly Asp Arg Ile Leu Glu Val Asn Gly Ser

50	55	60
Ser Leu Leu Gly Leu Gly Tyr Leu Arg Ala Val Asp Leu Ile Arg His		
65	70	75
Gly Gly Lys Lys Met Arg Phe Leu Val Ala Lys Ser Asp Val Glu Thr		
	85	90
Ala Lys Lys Ile		95
	100	

<210> 59
<211> 109
<212> PRT
<213> Homo sapiens

<400> 59			
Leu Thr Glu Phe Gln Asp Lys Gln Ile Lys Asp Trp Lys Lys Arg Phe			
1	5	10	15
Ile Gly Ile Arg Met Arg Thr Ile Thr Pro Ser Leu Val Asp Glu Leu			
20	25	30	
Lys Ala Ser Asn Pro Asp Phe Pro Glu Val Ser Ser Gly Ile Tyr Val			
35	40	45	
Gln Glu Val Ala Pro Asn Ser Pro Ser Gln Arg Gly Gly Ile Gln Asp			
50	55	60	
Gly Asp Ile Ile Val Lys Val Asn Gly Arg Pro Leu Val Asp Ser Ser			
65	70	75	80
Glu Leu Gln Glu Ala Val Leu Thr Glu Ser Pro Leu Leu Leu Glu Val			
85	90	95	
Arg Arg Gly Asn Asp Asp Leu Leu Phe Ser Asn Ser Ser			
100	105		

<210> 60
<211> 97
<212> PRT
<213> Homo sapiens

<400> 60			
His Lys Lys Tyr Leu Gly Leu Gln Met Leu Ser Leu Thr Val Pro Leu			
1	5	10	15
Ser Glu Glu Leu Lys Met His Tyr Pro Asp Phe Pro Asp Val Ser Ser			
20	25	30	
Gly Val Tyr Val Cys Lys Val Val Glu Gly Thr Ala Ala Gln Ser Ser			
35	40	45	
Gly Leu Arg Asp His Asp Val Ile Val Asn Ile Asn Gly Lys Pro Ile			
50	55	60	
Thr Thr Thr Asp Val Val Lys Ala Leu Asp Ser Asp Ser Leu Ser			
65	70	75	80
Met Ala Val Leu Arg Gly Lys Asp Asn Leu Leu Leu Thr Val Asn Ser			
85	90	95	
Ser			

<210> 61
<211> 104
<212> PRT
<213> Homo sapiens

<400> 61			
Ile Trp Gln Ile Glu Tyr Ile Asp Ile Glu Arg Pro Ser Thr Gly Gly			

1	5	10	15												
Leu	Gly	Phe	Ser	Val	Val	Ala	Leu	Arg	Ser	Gln	Asn	Leu	Gly	Lys	Val
				20				25					30		
Asp	Ile	Phe	Val	Lys	Asp	Val	Gln	Pro	Gly	Ser	Val	Ala	Asp	Arg	Asp
				35				40					45		
Gln	Arg	Leu	Lys	Glu	Asn	Asp	Gln	Ile	Leu	Ala	Ile	Asn	His	Thr	Pro
				50				55				60			
Leu	Asp	Gln	Asn	Ile	Ser	His	Gln	Gln	Ala	Ile	Ala	Leu	Leu	Gln	Gln
				65				70				75			80
Thr	Thr	Gly	Ser	Leu	Arg	Leu	Ile	Val	Ala	Arg	Glu	Pro	Val	His	Thr
				85				90					95		
Lys	Ser	Ser	Thr	Ser	Ser	Ser	Ser	Glu							
				100											

<210> 62
<211> 78
<212> PRT
<213> Homo sapiens

1	5	10	15												
Pro	Gly	His	Val	Glu	Glu	Val	Glu	Leu	Ile	Asn	Asp	Gly	Ser	Gly	Leu
Gly	Phe	Gly	Ile	Val	Gly	Gly	Lys	Thr	Ser	Gly	Val	Val	Val	Arg	Thr
				20				25						30	
Ile	Val	Pro	Gly	Gly	Leu	Ala	Asp	Arg	Asp	Gly	Arg	Leu	Gln	Thr	Gly
				35				40					45		
Asp	His	Ile	Leu	Lys	Ile	Gly	Gly	Thr	Asn	Val	Gln	Gly	Met	Thr	Ser
				50				55				60			
Glu	Gln	Val	Ala	Gln	Val	Leu	Arg	Asn	Cys	Gly	Asn	Ser	Ser		
				65				70				75			

<210> 63
<211> 111
<212> PRT
<213> Homo sapiens

1	5	10	15												
Pro	Gly	Ser	Asp	Ser	Ser	Leu	Phe	Glu	Thr	Tyr	Asn	Val	Glu	Leu	Val
Arg	Lys	Asp	Gly	Gln	Ser	Leu	Gly	Ile	Arg	Ile	Val	Gly	Tyr	Val	Gly
				20				25					30		
Thr	Ser	His	Thr	Gly	Glu	Ala	Ser	Gly	Ile	Tyr	Val	Lys	Ser	Ile	Ile
				35				40				45			
Pro	Gly	Ser	Ala	Ala	Tyr	His	Asn	Gly	His	Ile	Gln	Val	Asn	Asp	Lys
				50				55				60			
Ile	Val	Ala	Val	Asp	Gly	Val	Asn	Ile	Gln	Gly	Phe	Ala	Asn	His	Asp
				65				70				75			80
Val	Val	Glu	Val	Leu	Arg	Asn	Ala	Gly	Gln	Val	Val	His	Leu	Thr	Leu
				85				90					95		
Val	Arg	Arg	Lys	Thr	Ser	Ser	Ser	Thr	Ser	Arg	Ile	His	Arg	Asp	
				100				105					110		

<210> 64
<211> 96
<212> PRT
<213> Homo sapiens

<400> 64

Asn	Ser	Asp	Asp	Ala	Glu	Leu	Gln	Lys	Tyr	Ser	Lys	Leu	Leu	Pro	Ile
1				5				10						15	
His	Thr	Leu	Arg	Leu	Gly	Val	Glu	Val	Asp	Ser	Phe	Asp	Gly	His	His
				20				25					30		
Tyr	Ile	Ser	Ser	Ile	Val	Ser	Gly	Gly	Pro	Val	Asp	Thr	Leu	Gly	Leu
				35			40				45				
Leu	Gln	Pro	Glu	Asp	Glu	Leu	Leu	Glu	Val	Asn	Gly	Met	Gln	Leu	Tyr
				50			55			60					
Gly	Lys	Ser	Arg	Arg	Glu	Ala	Val	Ser	Phe	Leu	Lys	Glu	Val	Pro	Pro
				65			70			75			80		
Pro	Phe	Thr	Leu	Val	Cys	Cys	Arg	Arg	Leu	Phe	Asp	Asp	Glu	Ala	Ser
				85				90					95		

<210> 65
<211> 102
<212> PRT
<213> Homo sapiens

<400> 65

Leu	Ser	Ser	Pro	Glu	Val	Lys	Ile	Val	Glu	Leu	Val	Lys	Asp	Cys	Lys
1				5				10				15			
Gly	Leu	Gly	Phe	Ser	Ile	Leu	Asp	Tyr	Gln	Asp	Pro	Leu	Asp	Pro	Thr
				20				25			30				
Arg	Ser	Val	Ile	Val	Ile	Arg	Ser	Leu	Val	Ala	Asp	Gly	Val	Ala	Glu
				35			40			45					
Arg	Ser	Gly	Gly	Leu	Leu	Pro	Gly	Asp	Arg	Leu	Val	Ser	Val	Asn	Glu
				50			55			60					
Tyr	Cys	Leu	Asp	Asn	Thr	Ser	Leu	Ala	Glu	Ala	Val	Glu	Ile	Leu	Lys
				65			70			75			80		
Ala	Val	Pro	Pro	Gly	Leu	Val	His	Leu	Gly	Ile	Cys	Lys	Pro	Leu	Val
				85				90			95				
Glu	Phe	Ile	Val	Thr	Asp										
				100											

<210> 66
<211> 119
<212> PRT
<213> Homo sapiens

<400> 66

Pro	Asn	Phe	Ser	His	Trp	Gly	Pro	Pro	Arg	Ile	Val	Glu	Ile	Phe	Arg
1				5				10			15				
Glu	Pro	Asn	Val	Ser	Leu	Gly	Ile	Ser	Ile	Val	Val	Gly	Gln	Thr	Val
				20				25			30				
Ile	Lys	Arg	Leu	Lys	Asn	Gly	Glu	Glu	Leu	Lys	Gly	Ile	Phe	Ile	Lys
				35			40			45					
Gln	Val	Leu	Glu	Asp	Ser	Pro	Ala	Gly	Lys	Thr	Asn	Ala	Leu	Lys	Thr
				50			55			60					
Gly	Asp	Lys	Ile	Leu	Glu	Val	Ser	Gly	Val	Asp	Leu	Gln	Asn	Ala	Ser
				65			70			75			80		
His	Ser	Glu	Ala	Val	Glu	Ala	Ile	Lys	Asn	Ala	Gly	Asn	Pro	Val	Val
				85				90			95				
Phe	Ile	Val	Gln	Ser	Leu	Ser	Ser	Thr	Pro	Arg	Val	Ile	Pro	Asn	Val
				100				105			110				
His	Asn	Lys	Ala	Asn	Ser	Ser									
				115											

<210> 67
<211> 99
<212> PRT
<213> Homo sapiens

<400> 67
Pro Gly Glu Leu His Ile Ile Glu Leu Glu Lys Asp Lys Asn Gly Leu
1 5 10 15
Gly Leu Ser Leu Ala Gly Asn Lys Asp Arg Ser Arg Met Ser Ile Phe
20 25 30
Val Val Gly Ile Asn Pro Glu Gly Pro Ala Ala Ala Asp Gly Arg Met
35 40 45
Arg Ile Gly Asp Glu Leu Leu Glu Ile Asn Asn Gln Ile Leu Tyr Gly
50 55 60
Arg Ser His Gln Asn Ala Ser Ala Ile Ile Lys Thr Ala Pro Ser Lys
65 70 75 80
Val Lys Leu Val Phe Ile Arg Asn Glu Asp Ala Val Asn Gln Met Ala
85 90 95
Asn Ser Ser

<210> 68
<211> 93
<212> PRT
<213> Homo sapiens

<400> 68
Pro Ala Thr Cys Pro Ile Val Pro Gly Gln Glu Met Ile Ile Glu Ile
1 5 10 15
Ser Lys Gly Arg Ser Gly Leu Gly Leu Ser Ile Val Gly Gly Lys Asp
20 25 30
Thr Pro Leu Asn Ala Ile Val Ile His Glu Val Tyr Glu Glu Gly Ala
35 40 45
Ala Ala Arg Asp Gly Arg Leu Trp Ala Gly Asp Gln Ile Leu Glu Val
50 55 60
Asn Gly Val Asp Leu Arg Asn Ser Ser His Glu Glu Ala Ile Thr Ala
65 70 75 80
Leu Arg Gln Thr Pro Gln Lys Val Arg Leu Val Val Tyr
85 90

<210> 69
<211> 103
<212> PRT
<213> Homo sapiens

<400> 69
Ile Leu Thr Leu Thr Ile Leu Arg Gln Thr Gly Gly Leu Gly Ile Ser
1 5 10 15
Ile Ala Gly Gly Lys Gly Ser Thr Pro Tyr Lys Gly Asp Asp Glu Gly
20 25 30
Ile Phe Ile Ser Arg Val Ser Glu Glu Gly Pro Ala Ala Arg Ala Gly
35 40 45
Val Arg Val Gly Asp Lys Leu Leu Glu Val Asn Gly Val Ala Leu Gln
50 55 60
Gly Ala Glu His His Glu Ala Val Glu Ala Leu Arg Gly Ala Gly Thr
65 70 75 80
Ala Val Gln Met Arg Val Trp Arg Glu Arg Met Val Glu Pro Glu Asn

	85		90		95
Ala Glu Phe Ile Val Thr Asp					
	100				

<210> 70
<211> 97
<212> PRT
<213> Homo sapiens

<400> 70
Pro Leu Arg Gln Arg His Val Ala Cys Leu Ala Arg Ser Glu Arg Gly
1 5 10 15
Leu Gly Phe Ser Ile Ala Gly Gly Lys Gly Ser Thr Pro Tyr Arg Ala
20 25 30
Gly Asp Ala Gly Ile Phe Val Ser Arg Ile Ala Glu Gly Gly Ala Ala
35 40 45
His Arg Ala Gly Thr Leu Gln Val Gly Asp Arg Val Leu Ser Ile Asn
50 55 60
Gly Val Asp Val Thr Glu Ala Arg His Asp His Ala Val Ser Leu Leu
65 70 75 80
Thr Ala Ala Ser Pro Thr Ile Ala Leu Leu Leu Glu Arg Glu Ala Gly
85 90 95
Gly

<210> 71
<211> 106
<212> PRT
<213> Homo sapiens

<400> 71
Ile Leu Glu Gly Pro Tyr Pro Val Glu Glu Ile Arg Leu Pro Arg Ala
1 5 10 15
Gly Gly Pro Leu Gly Leu Ser Ile Val Gly Gly Ser Asp His Ser Ser
20 25 30
His Pro Phe Gly Val Gln Glu Pro Gly Val Phe Ile Ser Lys Val Leu
35 40 45
Pro Arg Gly Leu Ala Ala Arg Ser Gly Leu Arg Val Gly Asp Arg Ile
50 55 60
Leu Ala Val Asn Gly Gln Asp Val Arg Asp Ala Thr His Gln Glu Ala
65 70 75 80
Val Ser Ala Leu Leu Arg Pro Cys Leu Glu Leu Ser Leu Leu Val Arg
85 90 95
Arg Asp Pro Ala Glu Phe Ile Val Thr Asp
100 105

<210> 72
<211> 105
<212> PRT
<213> Homo sapiens

<400> 72
Arg Glu Leu Cys Ile Gln Lys Ala Pro Gly Glu Arg Leu Gly Ile Ser
1 5 10 15
Ile Arg Gly Gly Ala Arg Gly His Ala Gly Asn Pro Arg Asp Pro Thr
20 25 30
Asp Glu Gly Ile Phe Ile Ser Lys Val Ser Pro Thr Gly Ala Ala Gly

35	40	45
Arg Asp Gly Arg Leu Arg Val Gly Leu Arg Leu Leu Glu Val Asn Gln		
50	55	60
Gln Ser Leu Leu Gly Leu Thr His Gly Glu Ala Val Gln Leu Leu Arg		
65	70	75
Ser Val Gly Asp Thr Leu Thr Val Leu Val Cys Asp Gly Phe Glu Ala.		80
85	90	95
Ser Thr Asp Ala Ala Leu Glu Val Ser		
100	105	

<210> 73
<211> 91
<212> PRT
<213> Homo sapiens

<400> 73		
Pro His Gln Pro Ile Val Ile His Ser Ser Gly Lys Asn Tyr Gly Phe		
1	5	10
Thr Ile Arg Ala Ile Arg Val Tyr Val Gly Asp Ser Asp Ile Tyr Thr		15
20	25	30
Val His His Ile Val Trp Asn Val Glu Glu Gly Ser Pro Ala Cys Gln		
35	40	45
Ala Gly Leu Lys Ala Gly Asp Leu Ile Thr His Ile Asn Gly Glu Pro		
50	55	60
Val His Gly Leu Val His Thr Glu Val Ile Glu Leu Leu Leu Lys Ser		80
65	70	75
Gly Asn Lys Val Ser Ile Thr Thr Thr Pro Phe		
85	90	

<210> 74
<211> 105
<212> PRT
<213> Homo sapiens

<400> 74		
Ile Leu Ala Cys Ala Ala Lys Ala Lys Arg Arg Leu Met Thr Leu Thr		
1	5	10
Lys Pro Ser Arg Glu Ala Pro Leu Pro Phe Ile Leu Leu Gly Gly Ser		15
20	25	30
Glu Lys Gly Phe Gly Ile Phe Val Asp Ser Val Asp Ser Gly Ser Lys		
35	40	45
Ala Thr Glu Ala Gly Leu Lys Arg Gly Asp Gln Ile Leu Glu Val Asn		
50	55	60
Gly Gln Asn Phe Glu Asn Ile Gln Leu Ser Lys Ala Met Glu Ile Leu		80
65	70	75
Arg Asn Asn Thr His Leu Ser Ile Thr Val Lys Thr Asn Leu Phe Val		
85	90	95
Phe Lys Glu Leu Leu Thr Asn Ser Ser		
100	105	

<210> 75
<211> 88
<212> PRT
<213> Homo sapiens

<400> 75		
Ile Pro Pro Ala Pro Arg Lys Val Glu Met Arg Arg Asp Pro Val Leu		

1	5	10	15												
Gly	Phe	Gly	Phe	Val	Ala	Gly	Ser	Glu	Lys	Pro	Val	Val	Val	Arg	Ser
				20				25					30		
Val	Thr	Pro	Gly	Gly	Pro	Ser	Glu	Gly	Lys	Leu	Ile	Pro	Gly	Asp	Gln
					35			40					45		
Ile	Val	Met	Ile	Asn	Asp	Glu	Pro	Val	Ser	Ala	Ala	Pro	Arg	Glu	Arg
					50			55				60			
Val	Ile	Asp	Leu	Val	Arg	Ser	Cys	Lys	Glu	Ser	Ile	Leu	Leu	Thr	Val
					65			70				75			80
Ile	Gln	Pro	Tyr	Pro	Ser	Pro	Lys								
					85										

<210> 76
<211> 101
<212> PRT
<213> Homo sapiens

<400> 76															
Leu	Asn	Lys	Arg	Thr	Thr	Met	Pro	Lys	Asp	Ser	Gly	Ala	Leu	Leu	Gly
					1	5		10				15			
Leu	Lys	Val	Val	Gly	Gly	Lys	Met	Thr	Asp	Leu	Gly	Arg	Leu	Gly	Ala
					20			25				30			
Phe	Ile	Thr	Lys	Val	Lys	Lys	Gly	Ser	Leu	Ala	Asp	Val	Val	Gly	His
					35			40				45			
Leu	Arg	Ala	Gly	Asp	Glu	Val	Leu	Glu	Trp	Asn	Gly	Lys	Pro	Leu	Pro
					50			55				60			
Gly	Ala	Thr	Asn	Glu	Glu	Val	Tyr	Asn	Ile	Ile	Leu	Glu	Ser	Lys	Ser
					65			70			75			80	
Glu	Pro	Gln	Val	Glu	Ile	Ile	Val	Ser	Arg	Pro	Ile	Gly	Asp	Ile	Pro
					85			90				95			
Arg	Ile	His	Arg	Asp											
					100										

<210> 77
<211> 79
<212> PRT
<213> Homo sapiens

<400> 77															
Gln	Arg	Cys	Val	Ile	Ile	Gln	Lys	Asp	Gln	His	Gly	Phe	Thr		
					1	5		10				15			
Val	Ser	Gly	Asp	Arg	Ile	Val	Leu	Val	Gln	Ser	Val	Arg	Pro	Gly	Gly
					20			25				30			
Ala	Ala	Met	Lys	Ala	Gly	Val	Lys	Glu	Gly	Asp	Arg	Ile	Ile	Lys	Val
					35			40				45			
Asn	Gly	Thr	Met	Val	Thr	Asn	Ser	Ser	His	Leu	Glu	Val	Val	Lys	Leu
					50			55				60			
Ile	Lys	Ser	Gly	Ala	Tyr	Val	Ala	Leu	Thr	Leu	Leu	Gly	Ser	Ser	
					65			70			75				

<210> 78
<211> 87
<212> PRT
<213> Homo sapiens

<400> 78															
Ile	Leu	Val	Gln	Arg	Cys	Val	Ile	Ile	Gln	Lys	Asp	Asp	Asn	Gly	Phe

1	5	10	15
Gly Leu Thr Val Ser Gly Asp Asn Pro Val Phe Val Gln Ser Val Lys			
20	25	30	
Glu Asp Gly Ala Ala Met Arg Ala Gly Val Gln Thr Gly Asp Arg Ile			
35	40	45	
Ile Lys Val Asn Gly Thr Leu Val Thr His Ser Asn His Leu Glu Val			
50	55	60	
Val Lys Leu Ile Lys Ser Gly Ser Tyr Val Ala Leu Thr Val Gln Gly			
65	70	75	80
Arg Pro Pro Gly Asn Ser Ser			
85			

<210> 79

<211> 79

<212> PRT

<213> Homo sapiens

<400> 79

Ser Val Glu Met Thr Leu Arg Arg Asn Gly Leu Gly Gln Leu Gly Phe			
1	5	10	15
His Val Asn Tyr Glu Gly Ile Val Ala Asp Val Glu Pro Tyr Gly Tyr			
20	25	30	
Ala Trp Gln Ala Gly Leu Arg Gln Gly Ser Arg Leu Val Glu Ile Cys			
35	40	45	
Lys Val Ala Val Ala Thr Leu Ser His Glu Gln Met Ile Asp Leu Leu			
50	55	60	
Arg Thr Ser Val Thr Val Lys Val Val Ile Ile Pro Pro His Asp			
65	70	75	

<210> 80

<211> 96

<212> PRT

<213> Homo sapiens

<400> 80

Leu Lys Val Met Thr Ser Gly Trp Glu Thr Val Asp Met Thr Leu Arg			
1	5	10	15
Arg Asn Gly Leu Gly Gln Leu Gly Phe His Val Lys Tyr Asp Gly Thr			
20	25	30	
Val Ala Glu Val Glu Asp Tyr Gly Phe Ala Trp Gln Ala Gly Leu Arg			
35	40	45	
Gln Gly Ser Arg Leu Val Glu Ile Cys Lys Val Ala Val Val Thr Leu			
50	55	60	
Thr His Asp Gln Met Ile Asp Leu Leu Arg Thr Ser Val Thr Val Lys			
65	70	75	80
Val Val Ile Ile Pro Pro Phe Glu Asp Gly Thr Pro Arg Arg Gly Trp			
85	90	95	

<210> 81

<211> 105

<212> PRT

<213> Homo sapiens

<400> 81

His Tyr Ile Phe Pro His Ala Arg Ile Lys Ile Thr Arg Asp Ser Lys			
1	5	10	15
Asp His Thr Val Ser Gly Asn Gly Leu Gly Ile Arg Ile Val Gly Gly			

20	25	30
Lys Glu Ile Pro Gly His Ser Gly Glu Ile Gly Ala Tyr Ile Ala Lys		
35	40	45
Ile Leu Pro Gly Gly Ser Ala Glu Gln Thr Gly Lys Leu Met Glu Gly		
50	55	60
Met Gln Val Leu Glu Trp Asn Gly Ile Pro Leu Thr Ser Lys Thr Tyr		
65	70	75
Glu Glu Val Gln Ser Ile Ile Ser Gln Gln Ser Gly Glu Ala Glu Ile		
85	90	95
Cys Val Arg Leu Asp Leu Asn Met Leu		
100	105	

<210> 82
<211> 103
<212> PRT
<213> Homo sapiens

<400> 82		
Leu Cys Gly Ser Leu Arg Pro Pro Ile Val Ile His Ser Ser Gly Lys		
1	5	10
		15
Lys Tyr Gly Phe Ser Leu Arg Ala Ile Arg Val Tyr Met Gly Asp Ser		
20	25	30
Asp Val Tyr Thr Val His His Val Val Trp Ser Val Glu Asp Gly Ser		
35	40	45
Pro Ala Gln Glu Ala Gly Leu Arg Ala Gly Asp Leu Ile Thr His Ile		
50	55	60
Asn Gly Glu Ser Val Leu Gly Leu Val His Met Asp Val Val Glu Leu		
65	70	75
		80
Leu Leu Lys Ser Gly Asn Lys Ile Ser Leu Arg Thr Thr Ala Leu Glu		
85	90	95
Asn Thr Ser Ile Lys Val Gly		
100		

<210> 83
<211> 86
<212> PRT
<213> Homo sapiens

<400> 83		
Ser Tyr Ser Val Thr Leu Thr Gly Pro Gly Pro Trp Gly Phe Arg Leu		
1	5	10
		15
Gln Gly Gly Lys Asp Phe Asn Met Pro Leu Thr Ile Ser Arg Ile Thr		
20	25	30
Pro Gly Ser Lys Ala Ala Gln Ser Gln Leu Ser Gln Gly Asp Leu Val		
35	40	45
Val Ala Ile Asp Gly Val Asn Thr Asp Thr Met Thr His Leu Glu Ala		
50	55	60
Gln Asn Lys Ile Lys Ser Ala Ser Tyr Asn Leu Ser Leu Thr Leu Gln		
65	70	75
		80
Lys Ser Lys Asn Ser Ser		
85		

<210> 84
<211> 91
<212> PRT
<213> Homo sapiens

<400> 84
Ile Ser Arg Asp Ser Gly Ala Met Leu Gly Leu Lys Val Val Gly Gly
1 5 10 15
Lys Met Thr Glu Ser Gly Arg Leu Cys Ala Phe Ile Thr Lys Val Lys
20 25 30
Lys Gly Ser Leu Ala Asp Thr Val Gly His Leu Arg Pro Gly Asp Glu
35 40 45
Val Leu Glu Trp Asn Gly Arg Leu Leu Gln Gly Ala Thr Phe Glu Glu
50 55 60
Val Tyr Asn Ile Ile Leu Glu Ser Lys Pro Glu Pro Gln Val Glu Leu
65 70 75 80
Val Val Ser Arg Pro Ile Ala Ile His Arg Asp
85 90

<210> 85
<211> 101
<212> PRT
<213> Homo sapiens

<400> 85
Ile Ser Ala Leu Gly Ser Met Arg Pro Pro Ile Ile Ile His Arg Ala
1 5 10 15
Gly Lys Lys Tyr Gly Phe Thr Leu Arg Ala Ile Arg Val Tyr Met Gly
20 25 30
Asp Ser Asp Val Tyr Thr Val His His Met Val Trp His Val Glu Asp
35 40 45
Gly Gly Pro Ala Ser Glu Ala Gly Leu Arg Gln Gly Asp Leu Ile Thr
50 55 60
His Val Asn Gly Glu Pro Val His Gly Leu Val His Thr Glu Val Val
65 70 75 80
Glu Leu Ile Leu Lys Ser Gly Asn Lys Val Ala Ile Ser Thr Thr Pro
85 90 95
Leu Glu Asn Ser Ser
100

<210> 86
<211> 94
<212> PRT
<213> Homo sapiens

<400> 86
Phe Ser Asp Met Arg Ile Ser Ile Asn Gln Thr Pro Gly Lys Ser Leu
1 5 10 15
Asp Phe Gly Phe Thr Ile Lys Trp Asp Ile Pro Gly Ile Phe Val Ala
20 25 30
Ser Val Glu Ala Gly Ser Pro Ala Glu Phe Ser Gln Leu Gln Val Asp
35 40 45
Asp Glu Ile Ile Ala Ile Asn Asn Thr Lys Phe Ser Tyr Asn Asp Ser
50 55 60
Lys Glu Trp Glu Glu Ala Met Ala Lys Ala Gln Glu Thr Gly His Leu
65 70 75 80
Val Met Asp Val Arg Arg Tyr Gly Lys Ala Gly Ser Pro Glu
85 90

<210> 87
<211> 98
<212> PRT

<213> Homo sapiens

<400> 87

Gln	Ser	Ala	His	Leu	Glu	Val	Ile	Gln	Leu	Ala	Asn	Ile	Lys	Pro	Ser
1				5				10					15		
Glu	Gly	Leu	Gly	Met	Tyr	Ile	Lys	Ser	Thr	Tyr	Asp	Gly	Leu	His	Val
				20				25				30			
Ile	Thr	Gly	Thr	Thr	Glu	Asn	Ser	Pro	Ala	Asp	Arg	Cys	Lys	Lys	Ile
				35				40			45				
His	Ala	Gly	Asp	Glu	Val	Ile	Gln	Val	Asn	His	Gln	Thr	Val	Val	Gly
				50				55			60				
Trp	Gln	Leu	Lys	Asn	Leu	Val	Asn	Ala	Leu	Arg	Glu	Asp	Pro	Ser	Gly
				65				70			75			80	
Val	Ile	Leu	Thr	Leu	Lys	Lys	Arg	Pro	Gln	Ser	Met	Leu	Thr	Ser	Ala
				85				90			90			95	
Pro	Ala														

<210> 88

<211> 100

<212> PRT

<213> Homo sapiens

<400> 88

Ile	Leu	Thr	Gln	Thr	Leu	Ile	Pro	Val	Arg	His	Thr	Val	Lys	Ile	Asp
1					5				10			15			
Lys	Asp	Thr	Leu	Leu	Gln	Asp	Tyr	Gly	Phe	His	Ile	Ser	Glu	Ser	Leu
					20				25			30			
Pro	Leu	Thr	Val	Val	Ala	Val	Thr	Ala	Gly	Gly	Ser	Ala	His	Gly	Lys
					35				40			45			
Leu	Phe	Pro	Gly	Asp	Gln	Ile	Leu	Gln	Met	Asn	Asn	Glu	Pro	Ala	Glu
					50				55			60			
Asp	Leu	Ser	Trp	Glu	Arg	Ala	Val	Asp	Ile	Leu	Arg	Glu	Ala	Glu	Asp
					65				70			75			80
Ser	Leu	Ser	Ile	Thr	Val	Val	Arg	Cys	Thr	Ser	Gly	Val	Pro	Lys	Ser
					85				90			90			95
Ser	Asn	Ser	Ser												
				100											

<210> 89

<211> 93

<212> PRT

<213> Homo sapiens

<400> 89

Gly	Leu	Arg	Ser	Pro	Ile	Thr	Ile	Gln	Arg	Ser	Gly	Lys	Lys	Tyr	Gly
1					5				10			15			
Phe	Thr	Leu	Arg	Ala	Ile	Arg	Val	Tyr	Met	Gly	Asp	Thr	Asp	Val	Tyr
					20				25			30			
Ser	Val	His	His	Ile	Val	Trp	His	Val	Glu	Glu	Gly	Pro	Ala	Gln	
					35				40			45			
Glu	Ala	Gly	Leu	Cys	Ala	Gly	Asp	Leu	Ile	Thr	His	Val	Asn	Gly	Glu
					50				55			60			
Pro	Val	His	Gly	Met	Val	His	Pro	Glu	Val	Val	Glu	Leu	Ile	Leu	Lys
					65				70			75			80
Ser	Gly	Asn	Lys	Val	Ala	Val	Thr	Thr	Pro	Phe	Glu				
					85				90						

<210> 90
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 90
 Gln Gly Glu Glu Thr Lys Ser Leu Thr Leu Val Leu His Arg Asp Ser
 1 5 10 15
 Gly Ser Leu Gly Phe Asn Ile Ile Gly Gly Arg Pro Ser Val Asp Asn
 20 25 30
 His Asp Gly Ser Ser Ser Glu Gly Ile Phe Val Ser Lys Ile Val Asp
 35 40 45
 Ser Gly Pro Ala Ala Lys Glu Gly Gly Leu Gln Ile His Asp Arg Ile
 50 55 60
 Ile Glu Val Asn Gly Arg Asp Leu Ser Arg Ala Thr His Asp Gln Ala
 65 70 75 80
 Val Glu Ala Phe Lys Thr Ala Lys Glu Pro Ile Val Val Gln Val Leu
 85 90 95
 Arg Arg Thr Pro Arg Thr Lys Met Phe Thr Pro
 100 105

<210> 91
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 91
 Gln Glu Met Asp Arg Glu Glu Leu Glu Leu Glu Glu Val Asp Leu Tyr
 1 5 10 15
 Arg Met Asn Ser Gln Asp Lys Leu Gly Leu Thr Val Cys Tyr Arg Thr
 20 25 30
 Asp Asp Glu Asp Asp Ile Gly Ile Tyr Ile Ser Glu Ile Asp Pro Asn
 35 40 45
 Ser Ile Ala Ala Lys Asp Gly Arg Ile Arg Glu Gly Asp Arg Ile Ile
 50 55 60
 Gln Ile Asn Gly Ile Glu Val Gln Asn Arg Glu Ala Val Ala Leu
 65 70 75 80
 Leu Thr Ser Glu Glu Asn Lys Asn Phe Ser Leu Leu Ile Ala Arg Pro
 85 90 95
 Glu Leu Gln Leu Asp
 100

<210> 92
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 92
 Arg Ser Phe Gln Tyr Val Pro Val Gln Leu Gln Gly Gly Ala Pro Trp
 1 5 10 15
 Gly Phe Thr Leu Lys Gly Gly Leu Glu His Cys Glu Pro Leu Thr Val
 20 25 30
 Ser Lys Ile Glu Asp Gly Gly Lys Ala Ala Leu Ser Gln Lys Met Arg
 35 40 45
 Thr Gly Asp Glu Leu Val Asn Ile Asn Gly Thr Pro Leu Tyr Gly Ser
 50 55 60
 Arg Gln Glu Ala Leu Ile Leu Ile Lys Gly Ser Phe Arg Ile Leu Lys

65 70 75 80
Leu Ile Val Arg Arg Arg Asn Ala Pro Val Ser
 85 90

<210> 93
<211> 102
<212> PRT
<213> Homo sapiens

<400> 93
Ile Leu Glu Lys Leu Glu Leu Phe Pro Val Glu Leu Glu Lys Asp Glu
1 5 10 15
Asp Gly Leu Gly Ile Ser Ile Ile Gly Met Gly Val Gly Ala Asp Ala
20 25 30
Gly Leu Glu Lys Leu Gly Ile Phe Val Lys Thr Val Thr Glu Gly Gly
35 40 45
Ala Ala Gln Arg Asp Gly Arg Ile Gln Val Asn Asp Gln Ile Val Glu
50 55 60
Val Asp Gly Ile Ser Leu Val Gly Val Thr Gln Asn Phe Ala Ala Thr
65 70 75 80
Val Leu Arg Asn Thr Lys Gly Asn Val Arg Phe Val Ile Gly Arg Glu
85 90 95
Lys Pro Gly Gln Val Ser
100

<210> 94
<211> 113
<212> PRT
<213> Homo sapiens

<400> 94
Lys Asp Val Asn Val Tyr Val Asn Pro Lys Lys Leu Thr Val Ile Lys
1 5 10 15
Ala Lys Glu Gln Leu Lys Leu Leu Glu Val Leu Val Gly Ile Ile His
20 25 30
Gln Thr Lys Trp Ser Trp Arg Arg Thr Gly Lys Gln Gly Asp Gly Glu
35 40 45
Arg Leu Val Val His Gly Leu Leu Pro Gly Gly Ser Ala Met Lys Ser
50 55 60
Gly Gln Val Leu Ile Gly Asp Val Leu Val Ala Val Asn Asp Val Asp
65 70 75 80
Val Thr Thr Glu Asn Ile Glu Arg Val Leu Ser Cys Ile Pro Gly Pro
85 90 95
Met Gln Val Lys Leu Thr Phe Glu Asn Ala Tyr Asp Val Lys Arg Glu
100 105 110
Thr

<210> 95
<211> 90
<212> PRT
<213> Homo sapiens

<400> 95
Thr Arg Gly Cys Glu Thr Val Glu Met Thr Leu Arg Arg Asn Gly Leu
1 5 10 15
Gly Gln Leu Gly Phe His Val Asn Phe Glu Gly Ile Val Ala Asp Val

20	25	30
Glu Pro Phe Gly Phe Ala Trp Lys Ala Gly Leu Arg Gln Gly Ser Arg		
35	40	45
Leu Val Glu Ile Cys Lys Val Ala Val Ala Thr Leu Thr His Glu Gln		
50	55	60
Met Ile Asp Leu Leu Arg Thr Ser Val Thr Val Lys Val Val Ile Ile		
65	70	75
Gln Pro His Asp Asp Gly Ser Pro Arg Arg		
85	90	

<210> 96
<211> 96
<212> PRT
<213> Homo sapiens

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<400> 96
Val Glu Asn Ile Leu Ala Lys Arg Leu Leu Ile Leu Pro Gln Glu Glu
   1          5           10          15
Asp Tyr Gly Phe Asp Ile Glu Glu Lys Asn Lys Ala Val Val Val Lys
   20         25           30
Ser Val Gln Arg Gly Ser Leu Ala Glu Val Ala Gly Leu Gln Val Gly
   35         40           45
Arg Lys Ile Tyr Ser Ile Asn Glu Asp Leu Val Phe Leu Arg Pro Phe
   50         55           60
Ser Glu Val Glu Ser Ile Leu Asn Gln Ser Phe Cys Ser Arg Arg Pro
   65         70           75           80
Leu Arg Leu Leu Val Ala Thr Lys Ala Lys Glu Ile Ile Lys Ile Pro
   85         90           95

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<210> 97
<211> 103
<212> PRT
<213> *Homo sapiens*

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<400> 97
Pro Asp Ser Ala Gly Pro Gly Glu Val Arg Leu Val Ser Leu Arg Arg
   1           5           10          15
Ala Lys Ala His Glu Gly Leu Gly Phe Ser Ile Arg Gly Gly Ser Glu
   20          25          30
His Gly Val Gly Ile Tyr Val Ser Leu Val Glu Pro Gly Ser Leu Ala
   35          40          45
Glu Lys Glu Gly Leu Arg Val Gly Asp Gln Ile Leu Arg Val Asn Asp
   50          55          60
Lys Ser Leu Ala Arg Val Thr His Ala Glu Ala Val Lys Ala Leu Lys
   65          70          75          80
Gly Ser Lys Lys Leu Val Leu Ser Val Tyr Ser Ala Gly Arg Ile Pro
   85          90          95
Gly Gly Tyr Val Thr Asn His
   100

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<210> 98
<211> 100
<212> PRT
<213> *Homo sapiens*

<400> 98
Leu Gln Gly Gly Asp Glu Lys Lys Val Asn Leu Val Leu Gly Asp Gly

1	5	10	15
Arg Ser Leu Gly Leu Thr Ile Arg Gly Gly Ala Glu Tyr Gly Leu Gly			
20	25	30	
Ile Tyr Ile Thr Gly Val Asp Pro Gly Ser Glu Ala Glu Gly Ser Gly			
35	40	45	
Leu Lys Val Gly Asp Gln Ile Leu Glu Val Asn Trp Arg Ser Phe Leu			
50	55	60	
Asn Ile Leu His Asp Glu Ala Val Arg Leu Leu Lys Ser Ser Arg His			
65	70	75	80
Leu Ile Leu Thr Val Lys Asp Val Gly Arg Leu Pro His Ala Arg Thr			
85	90	95	
Thr Val Asp Glu			
100			

<210> 99
<211> 87
<212> PRT
<213> Homo sapiens

<400> 99			
Trp Thr Ser Gly Ala His Val His Ser Gly Pro Cys Glu Glu Lys Cys			
1	5	10	15
Gly His Pro Gly His Arg Gln Pro Leu Pro Arg Ile Val Thr Ile Gln			
20	25	30	
Arg Gly Gly Ser Ala His Asn Cys Gly Gln Leu Lys Val Gly His Val			
35	40	45	
Ile Leu Glu Val Asn Gly Leu Thr Leu Arg Gly Lys Glu His Arg Glu			
50	55	60	
Ala Ala Arg Ile Ile Ala Glu Ala Phe Lys Thr Lys Asp Arg Asp Tyr			
65	70	75	80
Ile Asp Phe Leu Asp Ser Leu			
85			

<210> 100
<211> 100
<212> PRT
<213> Homo sapiens

<400> 100			
Glu Leu Arg Arg Ala Glu Leu Val Glu Ile Ile Val Glu Thr Glu Ala			
1	5	10	15
Gln Thr Gly Val Ser Gly Ile Asn Val Ala Gly Gly Lys Glu Gly			
20	25	30	
Ile Phe Val Arg Glu Leu Arg Glu Asp Ser Pro Ala Ala Arg Ser Leu			
35	40	45	
Ser Leu Gln Glu Gly Asp Gln Leu Leu Ser Ala Arg Val Phe Phe Glu			
50	55	60	
Asn Phe Lys Tyr Glu Asp Ala Leu Arg Leu Leu Gln Cys Ala Glu Pro			
65	70	75	80
Tyr Lys Val Ser Phe Cys Leu Lys Arg Thr Val Pro Thr Gly Asp Leu			
85	90	95	
Ala Leu Arg Pro			
100			

<210> 101
<211> 102
<212> PRT

<213> Homo sapiens

<400> 101
Pro Ser Gln Leu Lys Gly Val Leu Val Arg Ala Ser Leu Lys Lys Ser
1 5 10 15
Thr Met Gly Phe Gly Phe Thr Ile Ile Gly Gly Asp Arg Pro Asp Glu
20 25 30
Phe Leu Gln Val Lys Asn Val Leu Lys Asp Gly Pro Ala Ala Gln Asp
35 40 45
Gly Lys Ile Ala Pro Gly Asp Val Ile Val Asp Ile Asn Gly Asn Cys
50 55 60
Val Leu Gly His Thr His Ala Asp Val Val Gln Met Phe Gln Leu Val
65 70 75 80
Pro Val Asn Gln Tyr Val Asn Leu Thr Leu Cys Arg Gly Tyr Pro Leu
85 90 95
Pro Asp Asp Ser Glu Asp
100

<210> 102

<211> 100

<212> PRT

<213> Homo sapiens

<400> 102
Ala Ser Ser Gly Ser Ser Gln Pro Glu Leu Val Thr Ile Pro Leu Ile
1 5 10 15
Lys Gly Pro Lys Gly Phe Gly Phe Ala Ile Ala Asp Ser Pro Thr Gly
20 25 30
Gln Lys Val Lys Met Ile Leu Asp Ser Gln Trp Cys Gln Gly Leu Gln
35 40 45
Lys Gly Asp Ile Ile Lys Glu Ile Tyr His Gln Asn Val Gln Asn Leu
50 55 60
Thr His Leu Gln Val Val Glu Val Leu Lys Gln Phe Pro Val Gly Ala
65 70 75 80
Asp Val Pro Leu Leu Ile Leu Arg Gly Gly Pro Pro Ser Pro Thr Lys
85 90 95
Thr Ala Lys Met
100

<210> 103

<211> 143

<212> PRT

<213> Homo sapiens

<400> 103
Leu Tyr Glu Asp Lys Pro Pro Leu Thr Asn Thr Phe Leu Ile Ser Asn
1 5 10 15
Pro Arg Thr Thr Ala Asp Pro Arg Ile Leu Tyr Glu Asp Lys Pro Pro
20 25 30
Asn Thr Lys Asp Leu Asp Val Phe Leu Arg Lys Gln Glu Ser Gly Phe
35 40 45
Gly Phe Arg Val Leu Gly Gly Asp Gly Pro Asp Gln Ser Ile Tyr Ile
50 55 60
Gly Ala Ile Ile Pro Leu Gly Ala Ala Glu Lys Asp Gly Arg Leu Arg
65 70 75 80
Ala Ala Asp Glu Leu Met Cys Ile Asp Gly Ile Pro Val Lys Gly Lys
85 90 95
Ser His Lys Gln Val Leu Asp Leu Met Thr Thr Ala Ala Arg Asn Gly

100	105	110
His Val Leu Leu Thr Val Arg Arg Lys Ile Phe Tyr Gly Glu Lys Gln		
115	120	125
Pro Glu Asp Asp Ser Gly Ser Pro Gly Ile His Arg Glu Leu Thr		
130	135	140

<210> 104
<211> 102
<212> PRT
<213> Homo sapiens

<400> 104		
Pro Ala Pro Gln Glu Pro Tyr Asp Val Val Leu Gln Arg Lys Glu Asn		
1	5	10
Glu Gly Phe Gly Phe Val Ile Leu Thr Ser Lys Asn Lys Pro Pro Pro		
20	25	30
Gly Val Ile Pro His Lys Ile Gly Arg Val Ile Glu Gly Ser Pro Ala		
35	40	45
Asp Arg Cys Gly Lys Leu Lys Val Gly Asp His Ile Ser Ala Val Asn		
50	55	60
Gly Gln Ser Ile Val Glu Leu Ser His Asp Asn Ile Val Gln Leu Ile		
65	70	75
Lys Asp Ala Gly Val Thr Val Thr Leu Thr Val Ile Ala Glu Glu Glu		
85	90	95
His His Gly Pro Pro Ser		
100		

<210> 105
<211> 98
<212> PRT
<213> Homo sapiens

<400> 105		
Gln Asn Leu Gly Cys Tyr Pro Val Glu Leu Glu Arg Gly Pro Arg Gly		
1	5	10
Phe Gly Phe Ser Leu Arg Gly Gly Lys Glu Tyr Asn Met Gly Leu Phe		
20	25	30
Ile Leu Arg Leu Ala Glu Asp Gly Pro Ala Ile Lys Asp Gly Arg Ile		
35	40	45
His Val Gly Asp Gln Ile Val Glu Ile Asn Gly Glu Pro Thr Gln Gly		
50	55	60
Ile Thr His Thr Arg Ala Ile Glu Leu Ile Gln Ala Gly Gly Asn Lys		
65	70	75
Val Leu Leu Leu Leu Arg Pro Gly Thr Gly Leu Ile Pro Asp His Gly		
85	90	95
Leu Ala		

<210> 106
<211> 84
<212> PRT
<213> Homo sapiens

<400> 106		
Ile Thr Val Val Glu Leu Ile Lys Lys Glu Gly Ser Thr Leu Gly Leu		
1	5	10
Thr Ile Ser Gly Gly Thr Asp Lys Asp Gly Lys Pro Arg Val Ser Asn		

	20	25	30												
Leu	Arg	Pro	Gly	Gly	Leu	Ala	Ala	Arg	Ser	Asp	Leu	Leu	Asn	Ile	Gly
		35			40						45				
Asp	Tyr	Ile	Arg	Ser	Val	Asn	Gly	Ile	His	Leu	Thr	Arg	Leu	Arg	His
		50			55					60					
Asp	Glu	Ile	Ile	Thr	Leu	Leu	Lys	Asn	Val	Gly	Glu	Arg	Val	Val	Leu
		65			70				75				80		
Glu	Val	Glu	Tyr												

<210> 107
<211> 92
<212> PRT
<213> Homo sapiens

	<400> 107														
Ile	Leu	Asp	Val	Ser	Leu	Tyr	Lys	Glu	Gly	Asn	Ser	Phe	Gly	Phe	Val
			1		5			10			15				
Leu	Arg	Gly	Gly	Ala	His	Glu	Asp	Gly	His	Lys	Ser	Arg	Pro	Leu	Val
					20			25			30				
Leu	Thr	Tyr	Val	Arg	Pro	Gly	Gly	Pro	Ala	Asp	Arg	Glu	Gly	Ser	Leu
					35			40			45				
Lys	Val	Gly	Asp	Arg	Leu	Leu	Ser	Val	Asp	Gly	Ile	Pro	Leu	His	Gly
					50			55			60				
Ala	Ser	His	Ala	Thr	Ala	Leu	Ala	Thr	Leu	Arg	Gln	Cys	Ser	His	Glu
					65			70			75			80	
Ala	Leu	Phe	Gln	Val	Glu	Tyr	Asp	Val	Ala	Thr	Pro				
					85			90							

<210> 108
<211> 102
<212> PRT
<213> Homo sapiens

	<400> 108														
Ile	His	Thr	Val	Ala	Asn	Ala	Ser	Gly	Pro	Leu	Met	Val	Glu	Ile	Val
			1		5			10			15				
Lys	Thr	Pro	Gly	Ser	Ala	Leu	Gly	Ile	Ser	Leu	Thr	Thr	Thr	Ser	Leu
					20			25			30				
Arg	Asn	Lys	Ser	Val	Ile	Thr	Ile	Asp	Arg	Ile	Lys	Pro	Ala	Ser	Val
					35			40			45				
Val	Asp	Arg	Ser	Gly	Ala	Leu	His	Pro	Gly	Asp	His	Ile	Leu	Ser	Ile
					50			55			60				
Asp	Gly	Thr	Ser	Met	Glu	His	Cys	Ser	Leu	Leu	Glu	Ala	Thr	Lys	Leu
					65			70			75			80	
Leu	Ala	Ser	Ile	Ser	Glu	Lys	Val	Arg	Leu	Glu	Ile	Leu	Pro	Val	Pro
					85			90			95				
Gln	Ser	Gln	Arg	Pro	Leu										
					100										

<210> 109
<211> 103
<212> PRT
<213> Homo sapiens

	<400> 109														
Ile	Gln	Ile	Val	His	Thr	Glu	Thr	Thr	Glu	Val	Val	Leu	Cys	Gly	Asp

1	5	10	15
Pro Leu Ser Gly Phe Gly Leu Gln Leu Gln Gly Gly Ile Phe Ala Thr			
20	25	30	
Glu Thr Leu Ser Ser Pro Pro Leu Val Cys Phe Ile Glu Pro Asp Ser			
35	40	45	
Pro Ala Glu Arg Cys Gly Leu Leu Gln Val Gly Asp Arg Val Leu Ser			
50	55	60	
Ile Asn Gly Ile Ala Thr Glu Asp Gly Thr Met Glu Glu Ala Asn Gln			
65	70	75	80
Leu Leu Arg Asp Ala Ala Leu Ala His Lys Val Val Leu Glu Val Glu			
85	90	95	
Phe Asp Val Ala Glu Ser Val			
100			

<210> 110
<211> 103
<212> PRT
<213> Homo sapiens

<400> 110			
Ile Gln Phe Asp Val Ala Glu Ser Val Ile Pro Ser Ser Gly Thr Phe			
1	5	10	15
His Val Lys Leu Pro Lys Lys Arg Ser Val Glu Leu Gly Ile Thr Ile			
20	25	30	
Ser Ser Ala Ser Arg Lys Arg Gly Glu Pro Leu Ile Ile Ser Asp Ile			
35	40	45	
Lys Lys Gly Ser Val Ala His Arg Thr Gly Thr Leu Glu Pro Gly Asp			
50	55	60	
Lys Leu Leu Ala Ile Asp Asn Ile Arg Leu Asp Asn Cys Pro Met Glu			
65	70	75	80
Asp Ala Val Gln Ile Leu Arg Gln Cys Glu Asp Leu Val Lys Leu Lys			
85	90	95	
Ile Arg Lys Asp Glu Asp Asn			
100			

<210> 111
<211> 94
<212> PRT
<213> Homo sapiens

<400> 111			
Ile Gln Thr Thr Gly Ala Val Ser Tyr Thr Val Glu Leu Lys Arg Tyr			
1	5	10	15
Gly Gly Pro Leu Gly Ile Thr Ile Ser Gly Thr Glu Glu Pro Phe Asp			
20	25	30	
Pro Ile Val Ile Ser Gly Leu Thr Lys Arg Gly Leu Ala Glu Arg Thr			
35	40	45	
Gly Ala Ile His Val Gly Asp Arg Ile Leu Ala Ile Asn Asn Val Ser			
50	55	60	
Leu Lys Gly Arg Pro Leu Ser Glu Ala Ile His Leu Leu Gln Val Ala			
65	70	75	80
Gly Glu Thr Val Thr Leu Lys Ile Lys Lys Gln Leu Asp Arg			
85	90		

<210> 112
<211> 105
<212> PRT

<213> Homo sapiens

<400> 112

Ile	Leu	Glu	Met	Glu	Glu	Leu	Leu	Leu	Pro	Thr	Pro	Leu	Glu	Met	His
1				5					10					15	
Lys	Val	Thr	Leu	His	Lys	Asp	Pro	Met	Arg	His	Asp	Phe	Gly	Phe	Ser
					20				25					30	
Val	Ser	Asp	Gly	Leu	Leu	Glu	Lys	Gly	Val	Tyr	Val	His	Thr	Val	Arg
					35				40					45	
Pro	Asp	Gly	Pro	Ala	His	Arg	Gly	Gly	Leu	Gln	Pro	Phe	Asp	Arg	Val
					50				55					60	
Leu	Gln	Val	Asn	His	Val	Arg	Thr	Arg	Asp	Phe	Asp	Cys	Cys	Leu	Ala
					65				70			75		80	
Val	Pro	Leu	Leu	Ala	Glu	Ala	Gly	Asp	Val	Leu	Glu	Leu	Ile	Ile	Ser
					85				90					95	
Arg	Lys	Pro	His	Thr	Ala	His	Ser	Ser							
					100									105	

<210> 113

<211> 91

<212> PRT

<213> Homo sapiens

<400> 113

Met	Ala	Leu	Thr	Val	Asp	Val	Ala	Gly	Pro	Ala	Pro	Trp	Gly	Phe	Arg
1				5					10					15	
Ile	Thr	Gly	Gly	Arg	Asp	Phe	His	Thr	Pro	Ile	Met	Val	Thr	Lys	Val
					20				25					30	
Ala	Glu	Arg	Gly	Lys	Ala	Lys	Asp	Ala	Asp	Leu	Arg	Pro	Gly	Asp	Ile
					35				40					45	
Ile	Val	Ala	Ile	Asn	Gly	Glu	Ser	Ala	Glu	Gly	Met	Leu	His	Ala	Glu
					50				55					60	
Ala	Gln	Ser	Lys	Ile	Arg	Gln	Ser	Pro	Ser	Pro	Leu	Arg	Leu	Gln	Leu
					65				70			75		80	
Asp	Arg	Ser	Gln	Ala	Thr	Ser	Pro	Gly	Gln	Thr					
					85				90						

<210> 114

<211> 84

<212> PRT

<213> Homo sapiens

<400> 114

Ser	Asn	Tyr	Ser	Val	Ser	Leu	Val	Gly	Pro	Ala	Pro	Trp	Gly	Phe	Arg
1				5					10					15	
Leu	Gln	Gly	Gly	Lys	Asp	Phe	Asn	Met	Pro	Leu	Thr	Ile	Ser	Ser	Leu
					20				25					30	
Lys	Asp	Gly	Gly	Lys	Ala	Ala	Gln	Ala	Asn	Val	Arg	Ile	Gly	Asp	Val
					35				40					45	
Val	Leu	Ser	Ile	Asp	Gly	Ile	Asn	Ala	Gln	Gly	Met	Thr	His	Leu	Glu
					50				55					60	
Ala	Gln	Asn	Lys	Ile	Lys	Gly	Cys	Thr	Gly	Ser	Leu	Asn	Met	Thr	Leu
					65				70			75		80	
Gln	Arg	Ala	Ser												

<210> 115

<211> 133
<212> PRT
<213> Homo sapiens

<400> 115

Thr	Leu	Val	Glu	His	Ser	Lys	Leu	Tyr	Cys	Gly	His	Cys	Tyr	Tyr	Gln
1															
															15
Thr	Val	Val	Thr	Pro	Val	Ile	Glu	Gln	Ile	Leu	Pro	Asp	Ser	Pro	Gly
															30
Ser	His	Leu	Pro	His	Thr	Val	Thr	Leu	Val	Ser	Ile	Pro	Ala	Ser	Ser
															45
His	Gly	Lys	Arg	Gly	Leu	Ser	Val	Ser	Ile	Asp	Pro	Pro	His	Gly	Pro
															60
Pro	Gly	Cys	Gly	Thr	Glu	His	Ser	His	Thr	Val	Arg	Val	Gln	Gly	Val
															80
Asp	Pro	Gly	Cys	Met	Ser	Pro	Asp	Val	Lys	Asn	Ser	Ile	His	Val	Gly
															95
Asp	Arg	Ile	Leu	Glu	Ile	Asn	Gly	Thr	Pro	Ile	Arg	Asn	Val	Pro	Leu
															110
Asp	Glu	Ile	Asp	Leu	Leu	Ile	Gln	Glu	Thr	Ser	Arg	Leu	Leu	Gln	Leu
															125
Thr	Leu	Glu	His	Asp											
															130

<210> 116
<211> 92
<212> PRT
<213> Homo sapiens

<400> 116

Pro	Tyr	Ser	Val	Thr	Leu	Ile	Ser	Met	Pro	Ala	Thr	Thr	Glu	Gly	Arg
1															
															15
Arg	Gly	Phe	Ser	Val	Ser	Val	Glu	Ser	Ala	Cys	Ser	Asn	Tyr	Ala	Thr
															30
Thr	Val	Gln	Val	Lys	Glu	Val	Asn	Arg	Met	His	Ile	Ser	Pro	Asn	Asn
															45
Arg	Asn	Ala	Ile	His	Pro	Gly	Asp	Arg	Ile	Leu	Glu	Ile	Asn	Gly	Thr
															60
Pro	Val	Arg	Thr	Leu	Arg	Val	Glu	Glu	Val	Glu	Asp	Ala	Ile	Ser	Gln
															80
Thr	Ser	Gln	Thr	Leu	Gln	Leu	Leu	Ile	Glu	His	Asp				
															85
															90

<210> 117
<211> 82
<212> PRT
<213> Homo sapiens

<400> 117

Ile	His	Ser	Val	Thr	Leu	Arg	Gly	Pro	Ser	Pro	Trp	Gly	Phe	Arg	Leu
1															
															15
Val	Gly	Arg	Asp	Phe	Ser	Ala	Pro	Leu	Thr	Ile	Ser	Arg	Val	His	Ala
															30
Gly	Ser	Lys	Ala	Ser	Leu	Ala	Ala	Leu	Cys	Pro	Gly	Asp	Leu	Ile	Gln
															45
Ala	Ile	Asn	Gly	Glu	Ser	Thr	Glu	Leu	Met	Thr	His	Leu	Glu	Ala	Gln
															50
Asn	Arg	Ile	Lys	Gly	Cys	His	Asp	His	Leu	Thr	Leu	Ser	Val	Ser	Arg
															55
															60

65
Pro Glu

70

75

80

<210> 118

<211> 74

<212> PRT

<213> Homo sapiens

<400> 118

Val Cys Tyr Arg Thr Asp Asp Glu Glu Asp Leu Gly Ile Tyr Val Gly
1 5 10 15
Glu Val Asn Pro Asn Ser Ile Ala Ala Lys Asp Gly Arg Ile Arg Glu
20 25 30
Gly Asp Arg Ile Ile Gln Ile Asn Gly Val Asp Val Gln Asn Arg Glu
35 40 45
Glu Ala Val Ala Ile Leu Ser Gln Glu Glu Asn Thr Asn Ile Ser Leu
50 55 60
Leu Val Ala Arg Pro Glu Ser Gln Leu Ala
65 70

<210> 119

<211> 103

<212> PRT

<213> Homo sapiens

<400> 119

Ile Gln Lys Lys Asn His Trp Thr Ser Arg Val His Glu Cys Thr Val
1 5 10 15
Lys Arg Gly Pro Gln Gly Glu Leu Gly Val Thr Val Leu Gly Gly Ala
20 25 30
Glu His Gly Glu Phe Pro Tyr Val Gly Ala Val Ala Val Glu Ala
35 40 45
Ala Gly Leu Pro Gly Gly Glu Gly Pro Arg Leu Gly Glu Gly Glu
50 55 60
Leu Leu Leu Glu Val Gln Gly Val Arg Val Ser Gly Leu Pro Arg Tyr
65 70 75 80
Asp Val Leu Gly Val Ile Asp Ser Cys Lys Glu Ala Val Thr Phe Lys
85 90 95
Ala Val Arg Gln Gly Gly Arg
100

<210> 120

<211> 104

<212> PRT

<213> Homo sapiens

<400> 120

Pro Ser Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser
1 5 10 15
Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu
20 25 30
Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp
35 40 45
Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys
50 55 60
Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile

65 70 75 80
Pro Ile Gly Ala Ser Val Asp Leu Glu Leu Cys Arg Gly Tyr Pro Leu
85 90 95
Pro Phe Asp Pro Asp Asp Pro Asn
100

<210> 121
<211> 92
<212> PRT
<213> Homo sapiens

<400> 121
Pro Ala Thr Gln Pro Glu Leu Ile Thr Val His Ile Val Lys Gly Pro
1 5 10 15
Met Gly Phe Gly Phe Thr Ile Ala Asp Ser Pro Gly Gly Gly Gln
20 25 30
Arg Val Lys Gln Ile Val Asp Ser Pro Arg Cys Arg Gly Leu Lys Glu
35 40 45
Gly Asp Leu Ile Val Glu Val Asn Lys Lys Asn Val Gln Ala Leu Thr
50 55 60
His Asn Gln Val Val Asp Met Leu Val Glu Cys Pro Lys Gly Ser Glu
65 70 75 80
Val Thr Leu Leu Val Gln Arg Gly Gly Asn Leu Ser
85 90

<210> 122
<211> 102
<212> PRT
<213> Homo sapiens

<400> 122
Pro Asp Tyr Gln Glu Gln Asp Ile Phe Leu Trp Arg Lys Glu Thr Gly
1 5 10 15
Phe Gly Phe Arg Ile Leu Gly Gly Asn Glu Pro Gly Glu Pro Ile Tyr
20 25 30
Ile Gly His Ile Val Pro Leu Gly Ala Ala Asp Thr Asp Gly Arg Leu
35 40 45
Arg Ser Gly Asp Glu Leu Ile Cys Val Asp Gly Thr Pro Val Ile Gly
50 55 60
Lys Ser His Gln Leu Val Val Gln Leu Met Gln Gln Ala Ala Lys Gln
65 70 75 80
Gly His Val Asn Leu Thr Val Arg Arg Lys Val Val Phe Ala Val Pro
85 90 95
Lys Thr Glu Asn Ser Ser
100

<210> 123
<211> 112
<212> PRT
<213> Homo sapiens

<400> 123
Gly Val Val Ser Thr Val Val Gln Pro Tyr Asp Val Glu Ile Arg Arg
1 5 10 15
Gly Glu Asn Glu Gly Phe Gly Phe Val Ile Val Ser Ser Val Ser Arg
20 25 30
Pro Glu Ala Gly Thr Thr Phe Ala Gly Asn Ala Cys Val Ala Met Pro

35	40	45
His Lys Ile Gly Arg Ile Ile	Glu Gly Ser Pro Ala Asp Arg Cys Gly	
50	55	60
Lys Leu Lys Val Gly Asp Arg Ile Leu Ala Val Asn Gly Cys Ser Ile		
65	70	75
Thr Asn Lys Ser His Ser Asp Ile Val Asn Leu Ile Lys Glu Ala Gly		
85	90	95
Asn Thr Val Thr Leu Arg Ile Ile Pro Gly Asp Glu Ser Ser Asn Ala		
100	105	110

<210> 124
<211> 91
<212> PRT
<213> Homo sapiens

<400> 124		
Gln Ala Thr Gln Glu Gln Asp Phe Tyr Thr Val Glu Leu Glu Arg Gly		
1	5	10
Ala Lys Gly Phe Gly Phe Ser Leu Arg Gly Gly Arg Glu Tyr Asn Met		
20	25	30
Asp Leu Tyr Val Leu Arg Leu Ala Glu Asp Gly Pro Ala Glu Arg Cys		
35	40	45
Gly Lys Met Arg Ile Gly Asp Glu Ile Leu Glu Ile Asn Gly Glu Thr		
50	55	60
Thr Lys Asn Met Lys His Ser Arg Ala Ile Glu Leu Ile Lys Asn Gly		
65	70	75
Gly Arg Arg Val Arg Leu Phe Leu Lys Arg Gly		
85	90	

<210> 125
<211> 100
<212> PRT
<213> Homo sapiens

<400> 125		
Pro Ala Lys Met Glu Lys Glu Glu Thr Thr Arg Glu Leu Leu Pro		
1	5	10
Asn Trp Gln Gly Ser Gly Ser His Gly Leu Thr Ile Ala Gln Arg Asp		
20	25	30
Asp Gly Val Phe Val Gln Glu Val Thr Gln Asn Ser Pro Ala Ala Arg		
35	40	45
Thr Gly Val Val Lys Glu Gly Asp Gln Ile Val Gly Ala Thr Ile Tyr		
50	55	60
Phe Asp Asn Leu Gln Ser Gly Glu Val Thr Gln Leu Leu Asn Thr Met		
65	70	75
Gly His His Thr Val Gly Leu Lys Leu His Arg Lys Gly Asp Arg Ser		
85	90	95
Pro Asn Ser Ser		
100		

<210> 126
<211> 97
<212> PRT
<213> Homo sapiens

<400> 126		
Ser Glu Asn Cys Lys Val Phe Ile Glu Lys Gln Lys Gly Glu Ile Leu		

1	5	10	15
Gly Val Val Ile Val Glu Ser Gly Trp	Gly Ser Ile Leu Pro Thr Val		
20	25	30	
Ile Ile Ala Asn Met Met His Gly Gly Pro Ala Glu Lys Ser Gly Lys			
35	40	45	
Leu Asn Ile Gly Asp Gln Ile Met Ser Ile Asn Gly Thr Ser Leu Val			
50	55	60	
Gly Leu Pro Leu Ser Thr Cys Gln Ser Ile Ile Lys Gly Leu Lys Asn			
65	70	75	80
Gln Ser Arg Val Lys Leu Asn Ile Val Arg Cys Pro Pro Val Asn Ser			
85	90	95	
Ser			

<210> 127
<211> 92
<212> PRT
<213> Homo sapiens

1	5	10	15
Leu Arg Cys Pro Pro Val Thr Thr Val Leu Ile Arg Arg Pro Asp Leu			
Arg Tyr Gln Leu Gly Phe Ser Val Gln Asn Gly Ile Ile Cys Ser Leu			
20	25	30	
Met Arg Gly Gly Ile Ala Glu Arg Gly Gly Val Arg Val Gly His Arg			
35	40	45	
Ile Ile Glu Ile Asn Gly Gln Ser Val Val Ala Thr Pro His Glu Lys			
50	55	60	
Ile Val His Ile Leu Ser Asn Ala Val Gly Glu Ile His Met Lys Thr			
65	70	75	80
Met Pro Ala Ala Met Tyr Arg Leu Leu Asn Ser Ser			
85	90		

<210> 128
<211> 103
<212> PRT
<213> Homo sapiens

1	5	10	15
Leu Ser Asn Ser Asp Asn Cys Arg Glu Val His Leu Glu Lys Arg Arg			
Gly Glu Gly Leu Gly Val Ala Leu Val Glu Ser Gly Trp Gly Ser Leu			
20	25	30	
Leu Pro Thr Ala Val Ile Ala Asn Leu Leu His Gly Gly Pro Ala Glu			
35	40	45	
Arg Ser Gly Ala Leu Ser Ile Gly Asp Arg Leu Thr Ala Ile Asn Gly			
50	55	60	
Thr Ser Leu Val Gly Leu Pro Leu Ala Ala Cys Gln Ala Ala Val Arg			
65	70	75	80
Glu Thr Lys Ser Gln Thr Ser Val Thr Leu Ser Ile Val His Cys Pro			
85	90	95	
Pro Val Thr Thr Ala Ile Met			
100			

<210> 129
<211> 92
<212> PRT

<213> Homo sapiens

<400> 129

Leu	Val	His	Cys	Pro	Pro	Val	Thr	Thr	Ala	Ile	Ile	His	Arg	Pro	His
1						5				10					15
Ala	Arg	Glu	Gln	Leu	Gly	Phe	Cys	Val	Glu	Asp	Gly	Ile	Ile	Cys	Ser
						20			25					30	
Leu	Leu	Arg	Gly	Gly	Ile	Ala	Glu	Arg	Gly	Gly	Ile	Arg	Val	Gly	His
						35			40				45		
Arg	Ile	Ile	Glu	Ile	Asn	Gly	Gln	Ser	Val	Val	Ala	Thr	Pro	His	Ala
						50			55			60			
Arg	Ile	Ile	Glu	Leu	Leu	Thr	Glu	Ala	Tyr	Gly	Glu	Val	His	Ile	Lys
						65			70			75			80
Thr	Met	Pro	Ala	Ala	Thr	Tyr	Arg	Leu	Leu	Thr	Gly				
						85			90						

<210> 130

<211> 86

<212> PRT

<213> Homo sapiens

<400> 130

Arg	Lys	Val	Arg	Leu	Ile	Gln	Phe	Glu	Lys	Val	Thr	Glu	Glu	Pro	Met
1						5				10					15
Gly	Ile	Thr	Leu	Lys	Leu	Asn	Glu	Lys	Gln	Ser	Cys	Thr	Val	Ala	Arg
						20			25			30			
Ile	Leu	His	Gly	Gly	Met	Ile	His	Arg	Gln	Gly	Ser	Leu	His	Val	Gly
						35			40			45			
Asp	Glu	Ile	Leu	Glu	Ile	Asn	Gly	Thr	Asn	Val	Thr	Asn	His	Ser	Val
						50			55			60			
Asp	Gln	Leu	Gln	Lys	Ala	Met	Lys	Glu	Thr	Lys	Gly	Met	Ile	Ser	Leu
						65			70			75			80
Lys	Val	Ile	Pro	Asn	Gln										
						85									

<210> 131

<211> 89

<212> PRT

<213> Homo sapiens

<400> 131

Pro	Val	Pro	Pro	Asp	Ala	Val	Arg	Met	Val	Gly	Ile	Arg	Lys	Thr	Ala
1						5			10						15
Gly	Glu	His	Leu	Gly	Val	Thr	Phe	Arg	Val	Glu	Gly	Gly	Glu	Leu	Val
						20			25			30			
Ile	Ala	Arg	Ile	Leu	His	Gly	Gly	Met	Val	Ala	Gln	Gln	Gly	Leu	Leu
						35			40			45			
His	Val	Gly	Asp	Ile	Ile	Lys	Glu	Val	Asn	Gly	Gln	Pro	Val	Gly	Ser
						50			55			60			
Asp	Pro	Arg	Ala	Leu	Gln	Glu	Leu	Leu	Arg	Asn	Ala	Ser	Gly	Ser	Val
						65			70			75			80
Ile	Leu	Lys	Ile	Leu	Pro	Asn	Tyr	Gln							
						85									

<210> 132

<211> 99

<212> PRT

<213> Homo sapiens

<400> 132

Gln	Gly	Arg	His	Val	Glu	Val	Phe	Glu	Leu	Leu	Lys	Pro	Pro	Ser	Gly
1				5				10				15			
Gly	Leu	Gly	Phe	Ser	Val	Val	Gly	Leu	Arg	Ser	Glu	Asn	Arg	Gly	Glu
					20			25				30			
Leu	Gly	Ile	Phe	Val	Gln	Glu	Ile	Gln	Glu	Gly	Ser	Val	Ala	His	Arg
					35			40				45			
Asp	Gly	Arg	Leu	Lys	Glu	Thr	Asp	Gln	Ile	Leu	Ala	Ile	Asn	Gly	Gln
					50			55			60				
Ala	Leu	Asp	Gln	Thr	Ile	Thr	His	Gln	Gln	Ala	Ile	Ser	Ile	Leu	Gln
					65			70			75			80	
Lys	Ala	Lys	Asp	Thr	Val	Gln	Leu	Val	Ile	Ala	Arg	Gly	Ser	Leu	Pro
					85			90				95			
Gln	Leu	Val													

<210> 133

<211> 97

<212> PRT

<213> Homo sapiens

<400> 133

Pro	Val	His	Trp	Gln	His	Met	Glu	Thr	Ile	Glu	Leu	Val	Asn	Asp	Gly
1					5				10				15		
Ser	Gly	Leu	Gly	Phe	Gly	Ile	Ile	Gly	Gly	Lys	Ala	Thr	Gly	Val	Ile
					20				25				30		
Val	Lys	Thr	Ile	Leu	Pro	Gly	Gly	Val	Ala	Asp	Gln	His	Gly	Arg	Leu
					35				40			45			
Cys	Ser	Gly	Asp	His	Ile	Leu	Lys	Ile	Gly	Asp	Thr	Asp	Leu	Ala	Gly
					50				55			60			
Met	Ser	Ser	Glu	Gln	Val	Ala	Gln	Val	Leu	Arg	Gln	Cys	Gly	Asn	Arg
					65				70			75			80
Val	Lys	Leu	Met	Ile	Ala	Arg	Gly	Ala	Ile	Glu	Glu	Arg	Thr	Ala	Pro
					85				90				95		
Thr															

<210> 134

<211> 98

<212> PRT

<213> Homo sapiens

<400> 134

Gln	Glu	Ser	Glu	Thr	Phe	Asp	Val	Glu	Leu	Thr	Lys	Asn	Val	Gln	Gly
1				5					10				15		
Leu	Gly	Ile	Thr	Ile	Ala	Gly	Tyr	Ile	Gly	Asp	Lys	Lys	Leu	Glu	Pro
					20				25			30			
Ser	Gly	Ile	Phe	Val	Lys	Ser	Ile	Thr	Lys	Ser	Ser	Ala	Val	Glu	His
					35				40			45			
Asp	Gly	Arg	Ile	Gln	Ile	Gly	Asp	Gln	Ile	Ile	Ala	Val	Asp	Gly	Thr
					50				55			60			
Asn	Leu	Gln	Gly	Phe	Thr	Asn	Gln	Gln	Ala	Val	Glu	Val	Leu	Arg	His
					65				70			75			80
Thr	Gly	Gln	Thr	Val	Leu	Leu	Thr	Leu	Met	Arg	Arg	Gly	Met	Lys	Gln
					85				90				95		
Glu	Ala														

<210> 135
<211> 92
<212> PRT
<213> Homo sapiens

<400> 135

Leu	Asn	Tyr	Glu	Ile	Val	Val	Ala	His	Val	Ser	Lys	Phe	Ser	Glu	Asn
1				5					10						15
Ser	Gly	Leu	Gly	Ile	Ser	Leu	Glu	Ala	Thr	Val	Gly	His	His	Phe	Ile
				20					25						30
Arg	Ser	Val	Leu	Pro	Glu	Gly	Pro	Val	Gly	His	Ser	Gly	Lys	Leu	Phe
				35				40						45	
Ser	Gly	Asp	Glu	Leu	Leu	Glu	Val	Asn	Gly	Ile	Thr	Leu	Leu	Gly	Glu
				50				55				60			
Asn	His	Gln	Asp	Val	Val	Asn	Ile	Leu	Lys	Glu	Leu	Pro	Ile	Glu	Val
				65				70			75			80	
Thr	Met	Val	Cys	Cys	Arg	Arg	Thr	Val	Pro	Pro	Pro	Thr			
				85					90						

<210> 136
<211> 100
<212> PRT
<213> Homo sapiens

<400> 136

Trp	Glu	Ala	Gly	Ile	Gln	His	Ile	Glu	Leu	Glu	Lys	Gly	Ser	Lys	Gly
1					5				10						15
Leu	Gly	Phe	Ser	Ile	Leu	Asp	Tyr	Gln	Asp	Pro	Ile	Asp	Pro	Ala	Ser
					20				25					30	
Thr	Val	Ile	Ile	Ile	Arg	Ser	Leu	Val	Pro	Gly	Gly	Ile	Ala	Glu	Lys
					35				40			45			
Asp	Gly	Arg	Leu	Leu	Pro	Gly	Asp	Arg	Leu	Met	Phe	Val	Asn	Asp	Val
					50			55			60				
Asn	Leu	Glu	Asn	Ser	Ser	Leu	Glu	Glu	Ala	Val	Glu	Ala	Leu	Lys	Gly
					65			70			75			80	
Ala	Pro	Ser	Gly	Thr	Val	Arg	Ile	Gly	Val	Ala	Lys	Pro	Leu	Pro	Leu
					85				90			95			
Ser	Pro	Glu	Glu												
				100											

<210> 137
<211> 99
<212> PRT
<213> Homo sapiens

<400> 137

Arg	Asn	Val	Ser	Lys	Glu	Ser	Phe	Glu	Arg	Thr	Ile	Asn	Ile	Ala	Lys
1					5				10						15
Gly	Asn	Ser	Ser	Leu	Gly	Met	Thr	Val	Ser	Ala	Asn	Lys	Asp	Gly	Leu
					20				25					30	
Gly	Met	Ile	Val	Arg	Ser	Ile	Ile	His	Gly	Gly	Ala	Ile	Ser	Arg	Asp
					35			40			45				
Gly	Arg	Ile	Ala	Ile	Gly	Asp	Cys	Ile	Leu	Ser	Ile	Asn	Glu	Glu	Ser
					50			55			60				
Thr	Ile	Ser	Val	Thr	Asn	Ala	Gln	Ala	Arg	Ala	Met	Leu	Arg	Arg	His

65 70 75 80
Ser Leu Ile Gly Pro Asp Ile Lys Ile Thr Tyr Val Pro Ala Glu His
 85 90 95
Leu Glu Glu

<210> 138
<211> 112
<212> PRT
<213> Homo sapiens

<400> 138
Leu Asn Trp Asn Gln Pro Arg Arg Val Glu Leu Trp Arg Glu Pro Ser
1 5 10 15
Lys Ser Leu Gly Ile Ser Ile Val Gly Gly Arg Gly Met Gly Ser Arg
20 25 30
Leu Ser Asn Gly Glu Val Met Arg Gly Ile Phe Ile Lys His Val Leu
35 40 45
Glu Asp Ser Pro Ala Gly Lys Asn Gly Thr Leu Lys Pro Gly Asp Arg
50 55 60
Ile Val Glu Val Asp Gly Met Asp Leu Arg Asp Ala Ser His Glu Gln
65 70 75 80
Ala Val Glu Ala Ile Arg Lys Ala Gly Asn Pro Val Val Phe Met Val
85 90 95
Gln Ser Ile Ile Asn Arg Pro Arg Lys Ser Pro Leu Pro Ser Leu Leu
100 105 110

<210> 139
<211> 95
<212> PRT
<213> Homo sapiens

<400> 139
Leu Thr Gly Glu Leu His Met Ile Glu Leu Glu Lys Gly His Ser Gly
1 5 10 15
Leu Gly Leu Ser Leu Ala Gly Asn Lys Asp Arg Ser Arg Met Ser Val
20 25 30
Phe Ile Val Gly Ile Asp Pro Asn Gly Ala Ala Gly Lys Asp Gly Arg
35 40 45
Leu Gln Ile Ala Asp Glu Leu Leu Glu Ile Asn Gly Gln Ile Leu Tyr
50 55 60
Gly Arg Ser His Gln Asn Ala Ser Ser Ile Ile Lys Cys Ala Pro Ser
65 70 75 80
Lys Val Lys Ile Ile Phe Ile Arg Asn Lys Asp Ala Val Asn Gln
85 90 95

<210> 140
<211> 94
<212> PRT
<213> Homo sapiens

<400> 140
Leu Ser Ser Phe Lys Asn Val Gln His Leu Glu Leu Pro Lys Asp Gln
1 5 10 15
Gly Gly Leu Gly Ile Ala Ile Ser Glu Glu Asp Thr Leu Ser Gly Val
20 25 30
Ile Ile Lys Ser Leu Thr Glu His Gly Val Ala Ala Thr Asp Gly Arg

35	40	45
Leu Lys Val Gly Asp Gln Ile Leu Ala Val Asp Asp Glu Ile Val Val		
50	55	60
Gly Tyr Pro Ile Glu Lys Phe Ile Ser Leu Leu Lys Thr Ala Lys Met		
65	70	75
Thr Val Lys Leu Thr Ile His Ala Glu Asn Pro Asp Ser Gln		
85	90	

<210> 141
<211> 95
<212> PRT
<213> Homo sapiens

<400> 141		
Leu Pro Gly Cys Glu Thr Thr Ile Glu Ile Ser Lys Gly Arg Thr Gly		
1	5	10
Leu Gly Leu Ser Ile Val Gly Gly Ser Asp Thr Leu Leu Gly Ala Ile		
20	25	30
Ile Ile His Glu Val Tyr Glu Glu Gly Ala Ala Cys Lys Asp Gly Arg		
35	40	45
Leu Trp Ala Gly Asp Gln Ile Leu Glu Val Asn Gly Ile Asp Leu Arg		
50	55	60
Lys Ala Thr His Asp Glu Ala Ile Asn Val Leu Arg Gln Thr Pro Gln		
65	70	75
Arg Val Arg Leu Thr Leu Tyr Arg Asp Glu Ala Pro Tyr Lys Glu		
85	90	95

<210> 142
<211> 98
<212> PRT
<213> Homo sapiens

<400> 142		
Lys Glu Glu Glu Val Cys Asp Thr Leu Thr Ile Glu Leu Gln Lys Lys		
1	5	10
Pro Gly Lys Gly Leu Gly Leu Ser Ile Val Gly Lys Arg Asn Asp Thr		
20	25	30
Gly Val Phe Val Ser Asp Ile Val Lys Gly Gly Ile Ala Asp Ala Asp		
35	40	45
Gly Arg Leu Met Gln Gly Asp Gln Ile Leu Met Val Asn Gly Glu Asp		
50	55	60
Val Arg Asn Ala Thr Gln Glu Ala Val Ala Ala Leu Leu Lys Cys Ser		
65	70	75
Leu Gly Thr Val Thr Leu Glu Val Gly Arg Ile Lys Ala Gly Pro Phe		
85	90	95
His Ser		

<210> 143
<211> 96
<212> PRT
<213> Homo sapiens

<400> 143		
Leu Gln Gly Leu Arg Thr Val Glu Met Lys Lys Gly Pro Thr Asp Ser		
1	5	10
Leu Gly Ile Ser Ile Ala Gly Gly Val Gly Ser Pro Leu Gly Asp Val		

	20	25	30												
Pro	Ile	Phe	Ile	Ala	Met	Met	His	Pro	Thr	Gly	Val	Ala	Ala	Gln	Thr
			35				40							45	
Gln	Lys	Leu	Arg	Val	Gly	Asp	Arg	Ile	Val	Thr	Ile	Cys	Gly	Thr	Ser
			50				55				60				
Thr	Glu	Gly	Met	Thr	His	Thr	Gln	Ala	Val	Asn	Leu	Leu	Lys	Asn	Ala
			65				70			75				80	
Ser	Gly	Ser	Ile	Glu	Met	Gln	Val	Val	Ala	Gly	Gly	Asp	Val	Ser	Val
			85				90							95	

<210> 144
<211> 91
<212> PRT
<213> Homo sapiens

	<400> 144														
Leu	Gly	Pro	Pro	Gln	Cys	Lys	Ser	Ile	Thr	Leu	Glu	Arg	Gly	Pro	Asp
								1	5	10			15		
Gly	Leu	Gly	Phe	Ser	Ile	Val	Gly	Gly	Tyr	Gly	Ser	Pro	His	Gly	Asp
								20	25				30		
Leu	Pro	Ile	Tyr	Val	Lys	Thr	Val	Phe	Ala	Lys	Gly	Ala	Ala	Ser	Glu
								35	40			45			
Asp	Gly	Arg	Leu	Lys	Arg	Gly	Asp	Gln	Ile	Ile	Ala	Val	Asn	Gly	Gln
								50	55		60				
Ser	Leu	Glu	Gly	Val	Thr	His	Glu	Glu	Ala	Val	Ala	Ile	Leu	Lys	Arg
								65	70		75			80	
Thr	Lys	Gly	Thr	Val	Thr	Leu	Met	Val	Leu	Ser					
								85		90					

<210> 145
<211> 93
<212> PRT
<213> Homo sapiens

	<400> 145														
Ile	Gln	Tyr	Glu	Glu	Ile	Val	Leu	Glu	Arg	Gly	Asn	Ser	Gly	Leu	Gly
								1	5	10			15		
Phe	Ser	Ile	Ala	Gly	Gly	Ile	Asp	Asn	Pro	His	Val	Pro	Asp	Asp	Pro
								20	25			30			
Gly	Ile	Phe	Ile	Thr	Lys	Ile	Ile	Pro	Gly	Gly	Ala	Ala	Ala	Met	Asp
								35	40		45				
Gly	Arg	Leu	Gly	Val	Asn	Asp	Cys	Val	Leu	Arg	Val	Asn	Glu	Val	Glu
								50	55		60				
Val	Ser	Glu	Val	Val	His	Ser	Arg	Ala	Val	Glu	Ala	Leu	Lys	Glu	Ala
								65	70		75			80	
Gly	Pro	Val	Val	Arg	Leu	Val	Val	Arg	Arg	Arg	Gln	Asn			
								85		90					

<210> 146
<211> 90
<212> PRT
<213> Homo sapiens

	<400> 146														
Ile	Thr	Leu	Leu	Lys	Gly	Pro	Lys	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly
								1	5	10			15		
Gly	Ile	Gly	Asn	Gln	His	Ile	Pro	Gly	Asp	Asn	Ser	Ile	Tyr	Ile	Thr

20	25	30
Lys Ile Ile Glu Gly Gly Ala Ala Gln Lys Asp Gly Arg Leu Gln Ile		
35	40	45
Gly Asp Arg Leu Leu Ala Val Asn Asn Thr Asn Leu Gln Asp Val Arg		
50	55	60
His Glu Glu Ala Val Ala Ser Leu Lys Asn Thr Ser Asp Met Val Tyr		
65	70	75
Leu Lys Val Ala Lys Pro Gly Ser Leu Glu		80
85	90	

<210> 147
<211> 119
<212> PRT
<213> Homo sapiens

147		
Ile Leu Leu His Lys Gly Ser Thr Gly Leu Gly Phe Asn Ile Val Gly		
1	5	10
Gly Glu Asp Gly Glu Gly Ile Phe Val Ser Phe Ile Leu Ala Gly Gly		15
20	25	30
Pro Ala Asp Leu Ser Gly Glu Leu Arg Arg Gly Asp Arg Ile Leu Ser		
35	40	45
Val Asn Gly Val Asn Leu Arg Asn Ala Thr His Glu Gln Ala Ala Ala		
50	55	60
Ala Leu Lys Arg Ala Gly Gln Ser Val Thr Ile Val Ala Gln Tyr Arg		
65	70	75
Pro Glu Glu Tyr Ser Arg Phe Glu Ser Lys Ile His Asp Leu Arg Glu		80
85	90	95
Gln Met Met Asn Ser Ser Met Ser Ser Gly Ser Gly Ser Leu Arg Thr		
100	105	110
Ser Glu Lys Arg Ser Leu Glu		
115		

<210> 148
<211> 111
<212> PRT
<213> Homo sapiens

148		
Cys Val Glu Arg Leu Glu Leu Phe Pro Val Glu Leu Glu Lys Asp Ser		
1	5	10
Glu Gly Leu Gly Ile Ser Ile Ile Gly Met Gly Ala Gly Ala Asp Met		15
20	25	30
Gly Leu Glu Lys Leu Gly Ile Phe Val Lys Thr Val Thr Glu Gly Gly		
35	40	45
Ala Ala His Arg Asp Gly Arg Ile Gln Val Asn Asp Leu Leu Val Glu		
50	55	60
Val Asp Gly Thr Ser Leu Val Gly Val Thr Gln Ser Phe Ala Ala Ser		
65	70	75
Val Leu Arg Asn Thr Lys Gly Arg Val Arg Phe Met Ile Gly Arg Glu		80
85	90	95
Arg Pro Gly Glu Gln Ser Glu Val Ala Gln Arg Ile His Arg Asp		
100	105	110

<210> 149
<211> 90
<212> PRT

<213> Homo sapiens

<400> 149

Ile	Gln	Pro	Asn	Val	Ile	Ser	Val	Arg	Leu	Phe	Lys	Arg	Lys	Val	Gly
1				5					10					15	
Gly	Leu	Gly	Phe	Leu	Val	Lys	Glu	Arg	Val	Ser	Lys	Pro	Pro	Val	Ile
				20				25					30		
Ile	Ser	Asp	Leu	Ile	Arg	Gly	Gly	Ala	Ala	Glu	Gln	Ser	Gly	Leu	Ile
				35				40				45			
Gln	Ala	Gly	Asp	Ile	Ile	Leu	Ala	Val	Asn	Gly	Arg	Pro	Leu	Val	Asp
				50				55			60				
Leu	Ser	Tyr	Asp	Ser	Ala	Leu	Glu	Val	Leu	Arg	Gly	Ile	Ala	Ser	Glu
				65				70			75			80	
Thr	His	Val	Val	Leu	Ile	Leu	Arg	Gly	Pro						
				85				90							

<210> 150

<211> 107

<212> PRT

<213> Homo sapiens

<400> 150

Gln	Ala	Asn	Ser	Asp	Glu	Ser	Asp	Ile	Ile	His	Ser	Val	Arg	Val	Glu
1				5					10				15		
Lys	Ser	Pro	Ala	Gly	Arg	Leu	Gly	Phe	Ser	Val	Arg	Gly	Gly	Ser	Glu
				20				25				30			
His	Gly	Leu	Gly	Ile	Phe	Val	Ser	Lys	Val	Glu	Glu	Gly	Ser	Ser	Ala
				35				40			45				
Glu	Arg	Ala	Gly	Leu	Cys	Val	Gly	Asp	Lys	Ile	Thr	Glu	Val	Asn	Gly
				50				55			60				
Leu	Ser	Leu	Glu	Ser	Thr	Thr	Met	Gly	Ser	Ala	Val	Lys	Val	Leu	Thr
				65				70			75			80	
Ser	Ser	Ser	Arg	Leu	His	Met	Met	Val	Arg	Arg	Met	Gly	Arg	Val	Pro
				85				90			95				
Gly	Ile	Lys	Phe	Ser	Lys	Glu	Lys	Asn	Ser	Ser					
				100				105							

<210> 151

<211> 106

<212> PRT

<213> Homo sapiens

<400> 151

Pro	Ser	Asp	Thr	Ser	Ser	Glu	Asp	Gly	Val	Arg	Arg	Ile	Val	His	Leu
1				5					10			15			
Tyr	Thr	Thr	Ser	Asp	Asp	Phe	Cys	Leu	Gly	Phe	Asn	Ile	Arg	Gly	Gly
				20				25			30				
Lys	Glu	Phe	Gly	Leu	Gly	Ile	Tyr	Val	Ser	Lys	Val	Asp	His	Gly	Gly
				35				40			45				
Leu	Ala	Glu	Glu	Asn	Gly	Ile	Lys	Val	Gly	Asp	Gln	Val	Leu	Ala	Ala
				50				55			60				
Asn	Gly	Val	Arg	Phe	Asp	Asp	Ile	Ser	His	Ser	Gln	Ala	Val	Glu	Val
				65				70			75			80	
Leu	Lys	Gly	Gln	Thr	His	Ile	Met	Leu	Thr	Ile	Lys	Glu	Thr	Gly	Arg
				85				90			95				
Tyr	Pro	Ala	Tyr	Lys	Glu	Met	Asn	Ser	Ser						
				100				105							

<210> 152
<211> 115
<212> PRT
<213> Homo sapiens

<400> 152

Lys Ile Lys Lys Phe Leu Thr Glu Ser His Asp Arg Gln Ala Lys Gly
1 5 10 15
Lys Ala Ile Thr Lys Lys Tyr Ile Gly Ile Arg Met Met Ser Leu
20 25 30
Thr Ser Ser Lys Ala Lys Glu Leu Lys Asp Arg His Arg Asp Phe Pro
35 40 45
Asp Val Ile Ser Gly Ala Tyr Ile Ile Glu Val Ile Pro Asp Thr Pro
50 55 60
Ala Glu Ala Gly Gly Leu Lys Glu Asn Asp Val Ile Ile Ser Ile Asn
65 70 75 80
Gly Gln Ser Val Val Ser Ala Asn Asp Val Ser Asp Val Ile Lys Arg
85 90 95
Glu Ser Thr Leu Asn Met Val Val Arg Arg Gly Asn Glu Asp Ile Met
100 105 110
Ile Thr Val
115

<210> 153
<211> 100
<212> PRT
<213> Homo sapiens

<400> 153

Pro Asp Gly Glu Ile Thr Ser Ile Lys Ile Asn Arg Val Asp Pro Ser
1 5 10 15
Glu Ser Leu Ser Ile Arg Leu Val Gly Gly Ser Glu Thr Pro Leu Val
20 25 30
His Ile Ile Ile Gln His Ile Tyr Arg Asp Gly Val Ile Ala Arg Asp
35 40 45
Gly Arg Leu Leu Pro Gly Asp Ile Ile Leu Lys Val Asn Gly Met Asp
50 55 60
Ile Ser Asn Val Pro His Asn Tyr Ala Val Arg Leu Leu Arg Gln Pro
65 70 75 80
Cys Gln Val Leu Trp Leu Thr Val Met Arg Glu Gln Lys Phe Arg Ser
85 90 95
Arg Asn Ser Ser
100

<210> 154
<211> 101
<212> PRT
<213> Homo sapiens

<400> 154

His Arg Pro Arg Asp Asp Ser Phe His Val Ile Leu Asn Lys Ser Ser
1 5 10 15
Pro Glu Glu Gln Leu Gly Ile Lys Leu Val Arg Lys Val Asp Glu Pro
20 25 30
Gly Val Phe Ile Phe Asn Val Leu Asp Gly Gly Val Ala Tyr Arg His
35 40 45
Gly Gln Leu Glu Glu Asn Asp Arg Val Leu Ala Ile Asn Gly His Asp

50	55	60
Leu Arg Tyr Gly Ser Pro Glu Ser Ala Ala His Leu Ile Gln Ala Ser		
65	70	75
Glu Arg Arg Val His Leu Val Val Ser Arg Gln Val Arg Gln Arg Ser		
85	90	95
Pro Glu Asn Ser Ser		
100		

<210> 155
<211> 104
<212> PRT
<213> Homo sapiens

<400> 155		
Pro Thr Ile Thr Cys His Glu Lys Val Val Asn Ile Gln Lys Asp Pro		
1	5	10
Gly Glu Ser Leu Gly Met Thr Val Ala Gly Gly Ala Ser His Arg Glu		
20	25	30
Trp Asp Leu Pro Ile Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile		
35	40	45
Ser Arg Asp Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp		
50	55	60
Gly Val Glu Leu Thr Glu Val Ser Arg Ser Glu Ala Val Ala Leu Leu		
65	70	75
Lys Arg Thr Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu		
85	90	95
Tyr Glu Pro Gln Glu Phe Ile Val		
100		

<210> 156
<211> 99
<212> PRT
<213> Homo sapiens

<400> 156		
Pro Arg Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr		
1	5	10
Ala Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn		
20	25	30
Gly Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala		
35	40	45
Tyr Asn Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn		
50	55	60
Gly Arg Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu		
65	70	75
Lys Glu Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly		
85	90	95
Thr Phe Leu		

<210> 157
<211> 101
<212> PRT
<213> Homo sapiens

<400> 157	
Leu Leu Thr Glu Glu Ile Asn Leu Thr Arg Gly Pro Ser Gly Leu	

1	5	10	15
Gly Phe Asn Ile Val Gly Gly Thr Asp Gln Gln Tyr Val Ser Asn Asp			
20	25	30	
Ser Gly Ile Tyr Val Ser Arg Ile Lys Glu Asn Gly Ala Ala Ala Leu			
35	40	45	
Asp Gly Arg Leu Gln Glu Gly Asp Lys Ile Leu Ser Val Asn Gly Gln			
50	55	60	
Asp Leu Lys Asn Leu Leu His Gln Asp Ala Val Asp Leu Phe Arg Asn			
65	70	75	80
Ala Gly Tyr Ala Val Ser Leu Arg Val Gln His Arg Leu Gln Val Gln			
85	90	95	
Asn Gly Ile His Ser			
100			

<210> 158
<211> 94
<212> PRT
<213> Homo sapiens

1	5	10	15
Pro Val Asp Ala Ile Arg Ile Leu Gly Ile His Lys Arg Ala Gly Glu			
20	25	30	
Pro Leu Gly Val Thr Phe Arg Val Glu Asn Asn Asp Leu Val Ile Ala			
35	40	45	
Arg Ile Leu His Gly Gly Met Ile Asp Arg Gln Gly Leu Leu His Val			
50	55	60	
Gly Asp Ile Ile Lys Glu Val Asn Gly His Glu Val Gly Asn Asn Pro			
65	70	75	80
Lys Glu Leu Gln Glu Leu Leu Lys Asn Ile Ser Gly Ser Val Thr Leu			
85	90		
Lys Ile Leu Pro Ser Tyr Arg Asp Thr Ile Thr Pro Gln Gln			

<210> 159
<211> 93
<212> PRT
<213> Homo sapiens

1	5	10	15
Asp Asp Met Val Lys Leu Val Glu Val Pro Asn Asp Gly Gly Pro Leu			
20	25	30	
Gly Ile His Val Val Pro Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly			
35	40	45	
Leu Leu Val Lys Arg Leu Glu Lys Gly Gly Lys Ala Glu His Glu Asn			
50	55	60	
Leu Phe Arg Glu Asn Asp Cys Ile Val Arg Ile Asn Asp Gly Asp Leu			
65	70	75	80
Arg Asn Arg Arg Phe Glu Gln Ala Gln His Met Phe Arg Gln Ala Met			
85	90		
Arg Thr Pro Ile Ile Trp Phe His Val Val Pro Ala Ala			

<210> 160
<211> 94
<212> PRT
<213> Homo sapiens

<400> 160

Gly	Lys	Arg	Leu	Asn	Ile	Gln	Leu	Lys	Lys	Gly	Thr	Glu	Gly	Leu	Gly
1					5			10						15	
Phe	Ser	Ile	Thr	Ser	Arg	Asp	Val	Thr	Ile	Gly	Gly	Ser	Ala	Pro	Ile
					20			25						30	
Tyr	Val	Lys	Asn	Ile	Leu	Pro	Arg	Gly	Ala	Ala	Ile	Gln	Asp	Gly	Arg
					35			40				45			
Leu	Lys	Ala	Gly	Asp	Arg	Leu	Ile	Glu	Val	Asn	Gly	Val	Asp	Leu	Val
					50			55			60				
Gly	Lys	Ser	Gln	Glu	Glu	Val	Val	Ser	Leu	Leu	Arg	Ser	Thr	Lys	Met
					65			70			75			80	
Glu	Gly	Thr	Val	Ser	Leu	Leu	Val	Phe	Arg	Gln	Glu	Asp	Ala		
					85				90						

<210> 161
<211> 103
<212> PRT
<213> Homo sapiens

<400> 161

Thr	Pro	Asp	Gly	Thr	Arg	Glu	Phe	Leu	Thr	Phe	Glu	Val	Pro	Leu	Asn
1					5				10					15	
Asp	Ser	Gly	Ser	Ala	Gly	Leu	Gly	Val	Ser	Val	Lys	Gly	Asn	Arg	Ser
					20				25			30			
Lys	Glu	Asn	His	Ala	Asp	Leu	Gly	Ile	Phe	Val	Lys	Ser	Ile	Ile	Asn
					35				40			45			
Gly	Gly	Ala	Ala	Ser	Lys	Asp	Gly	Arg	Leu	Arg	Val	Asn	Asp	Gln	Leu
					50				55			60			
Ile	Ala	Val	Asn	Gly	Glu	Ser	Leu	Leu	Gly	Lys	Thr	Asn	Gln	Asp	Ala
					65				70			75			80
Met	Glu	Thr	Leu	Arg	Arg	Ser	Met	Ser	Thr	Glu	Gly	Asn	Lys	Arg	Gly
					85				90			95			
Met	Ile	Gln	Leu	Ile	Val	Ala									
					100										

<210> 162
<211> 102
<212> PRT
<213> Homo sapiens

<400> 162

Leu	Pro	Glu	Thr	His	Arg	Arg	Val	Arg	Leu	His	Lys	His	Gly	Ser	Asp
1					5				10				15		
Arg	Pro	Leu	Gly	Phe	Tyr	Ile	Arg	Asp	Gly	Met	Ser	Val	Arg	Val	Ala
					20				25			30			
Pro	Gln	Gly	Leu	Glu	Arg	Val	Pro	Gly	Ile	Phe	Ile	Ser	Arg	Leu	Val
					35				40			45			
Arg	Gly	Gly	Leu	Ala	Glu	Ser	Thr	Gly	Leu	Leu	Ala	Val	Ser	Asp	Glu
					50				55			60			
Ile	Leu	Glu	Val	Asn	Gly	Ile	Glu	Val	Ala	Gly	Lys	Thr	Leu	Asp	Gln
					65				70			75			80
Val	Thr	Asp	Met	Met	Val	Ala	Asn	Ser	His	Asn	Leu	Ile	Val	Thr	Val
					85				90			95			
Lys	Pro	Ala	Asn	Gln	Arg										
					100										

<210> 163

<211> 111
<212> PRT
<213> Homo sapiens

<400> 163
Ile Asp Val Asp Leu Val Pro Glu Thr His Arg Arg Val Arg Leu His
1 5 10 15
Arg His Gly Cys Glu Lys Pro Leu Gly Phe Tyr Ile Arg Asp Gly Ala
20 25 30
Ser Val Arg Val Thr Pro His Gly Leu Glu Lys Val Pro Gly Ile Phe
35 40 45
Ile Ser Arg Met Val Pro Gly Gly Leu Ala Glu Ser Thr Gly Leu Leu
50 55 60
Ala Val Asn Asp Glu Val Leu Glu Val Asn Gly Ile Glu Val Ala Gly
65 70 75 80
Lys Thr Leu Asp Gln Val Thr Asp Met Met Ile Ala Asn Ser His Asn
85 90 95
Leu Ile Val Thr Val Lys Pro Ala Asn Gln Arg Asn Asn Val Val
100 105 110

<210> 164
<211> 100
<212> PRT
<213> Homo sapiens

<400> 164
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
1 5 10 15
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
20 25 30
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
35 40 45
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
50 55 60
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
65 70 75 80
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
85 90 95
Asp Glu Phe His
100

<210> 165
<211> 102
<212> PRT
<213> Homo sapiens

<400> 165
Ile Pro Gly Asn Arg Glu Asn Lys Glu Lys Lys Val Phe Ile Ser Leu
1 5 10 15
Val Gly Ser Arg Gly Leu Gly Cys Ser Ile Ser Ser Gly Pro Ile Gln
20 25 30
Lys Pro Gly Ile Phe Ile Ser His Val Lys Pro Gly Ser Leu Ser Ala
35 40 45
Glu Val Gly Leu Glu Ile Gly Asp Gln Ile Val Glu Val Asn Gly Val
50 55 60
Asp Phe Ser Asn Leu Asp His Lys Glu Ala Val Asn Val Leu Lys Ser
65 70 75 80
Ser Arg Ser Leu Thr Ile Ser Ile Val Ala Ala Gly Arg Glu Leu

85	90	95
Phe Met Thr Asp Glu Phe		
100		

<210> 166
<211> 103
<212> PRT
<213> Homo sapiens

<400> 166
Pro Glu Gln Ile Met Gly Lys Asp Val Arg Leu Leu Arg Ile Lys Lys
1 5 10 15
Glu Gly Ser Leu Asp Leu Ala Leu Glu Gly Gly Val Asp Ser Pro Ile
20 25 30
Gly Lys Val Val Val Ser Ala Val Tyr Glu Arg Gly Ala Ala Glu Arg
35 40 45
His Gly Gly Ile Val Lys Gly Asp Glu Ile Met Ala Ile Asn Gly Lys
50 55 60
Ile Val Thr Asp Tyr Thr Leu Ala Glu Ala Asp Ala Ala Leu Gln Lys
65 70 75 80
Ala Trp Asn Gln Gly Gly Asp Trp Ile Asp Leu Val Val Ala Val Cys
85 90 95
Pro Pro Lys Glu Tyr Asp Asp
100

<210> 167
<211> 103
<212> PRT
<213> Homo sapiens

<400> 167
Leu Thr Ser Thr Phe Asn Pro Arg Glu Cys Lys Leu Ser Lys Gln Glu
1 5 10 15
Gly Gln Asn Tyr Gly Phe Phe Leu Arg Ile Glu Lys Asp Thr Glu Gly
20 25 30
His Leu Val Arg Val Val Glu Lys Cys Ser Pro Ala Glu Lys Ala Gly
35 40 45
Leu Gln Asp Gly Asp Arg Val Leu Arg Ile Asn Gly Val Phe Val Asp
50 55 60
Lys Glu Glu His Met Gln Val Val Asp Leu Val Arg Lys Ser Gly Asn
65 70 75 80
Ser Val Thr Leu Leu Val Leu Asp Gly Asp Ser Tyr Glu Lys Ala Gly
85 90 95
Ser Pro Gly Ile His Arg Asp
100

<210> 168
<211> 92
<212> PRT
<213> Homo sapiens

<400> 168
Arg Leu Cys Tyr Leu Val Lys Glu Gly Gly Ser Tyr Gly Phe Ser Leu
1 5 10 15
Lys Thr Val Gln Gly Lys Lys Gly Val Tyr Met Thr Asp Ile Thr Pro
20 25 30
Gln Gly Val Ala Met Arg Ala Gly Val Leu Ala Asp Asp His Leu Ile

35	40	45
Glu Val Asn Gly Glu Asn Val	Glu Asp Ala Ser His	Glu Val Val
50	55	60
Glu Lys Val Lys Lys Ser Gly Ser Arg Val	Met Phe Leu Leu Val Asp	
65	70	75
Lys Glu Thr Asp Lys Arg Glu Phe Ile Val Thr Asp		80
85	90	

<210> 169
<211> 112
<212> PRT
<213> Homo sapiens

<400> 169			
Gln Phe Lys Arg Glu Thr Ala Ser Leu Lys Leu Leu Pro His Gln Pro			
1	5	10	15
Arg Ile Val Glu Met Lys Lys Gly Ser Asn Gly Tyr Gly Phe Tyr Leu			
20	25	30	
Arg Ala Gly Ser Glu Gln Lys Gly Gln Ile Ile Lys Asp Ile Asp Ser			
35	40	45	
Gly Ser Pro Ala Glu Glu Ala Gly Leu Lys Asn Asn Asp Leu Val Val			
50	55	60	
Ala Val Asn Gly Glu Ser Val Glu Thr Leu Asp His Asp Ser Val Val			
65	70	75	80
Glu Met Ile Arg Lys Gly Gly Asp Gln Thr Ser Leu Leu Val Val Asp			
85	90	95	
Lys Glu Thr Asp Asn Met Tyr Arg Leu Ala Glu Phe Ile Val Thr Asp			
100	105	110	

<210> 170
<211> 95
<212> PRT
<213> Homo sapiens

<400> 170			
Pro Asp Thr Thr Glu Glu Val Asp His Lys Pro Lys Leu Cys Arg Leu			
1	5	10	15
Ala Lys Gly Glu Asn Gly Tyr Gly Phe His Leu Asn Ala Ile Arg Gly			
20	25	30	
Leu Pro Gly Ser Phe Ile Lys Glu Val Gln Lys Gly Gly Pro Ala Asp			
35	40	45	
Leu Ala Gly Leu Glu Asp Glu Asp Val Ile Ile Glu Val Asn Gly Val			
50	55	60	
Asn Val Leu Asp Glu Pro Tyr Glu Lys Val Val Asp Arg Ile Gln Ser			
65	70	75	80
Ser Gly Lys Asn Val Thr Leu Leu Val Glx Gly Lys Asn Ser Ser			
85	90	95	

<210> 171
<211> 89
<212> PRT
<213> Homo sapiens

<400> 171			
Pro Thr Val Pro Gly Lys Val Thr Leu Gln Lys Asp Ala Gln Asn Leu			
1	5	10	15
Ile Gly Ile Ser Ile Gly Gly Ala Gln Tyr Cys Pro Cys Leu Tyr			

	20	25	30
Ile Val Gln Val Phe Asp Asn Thr Pro Ala Ala Leu Asp Gly Thr Val			
35	40	45	
Ala Ala Gly Asp Glu Ile Thr Gly Val Asn Gly Arg Ser Ile Lys Gly			
50	55	60	
Lys Thr Lys Val Glu Val Ala Lys Met Ile Gln Glu Val Lys Gly Glu			
65	70	75	80
Val Thr Ile His Tyr Asn Lys Leu Gln			
	85		

<210> 172
<211> 98
<212> PRT
<213> Homo sapiens

	172		
Ser Gln Gly Val Gly Pro Ile Arg Lys Val Leu Leu Leu Lys Glu Asp			
1	5	10	15
His Glu Gly Leu Gly Ile Ser Ile Thr Gly Gly Lys Glu His Gly Val			
20	25	30	
Pro Ile Leu Ile Ser Glu Ile His Pro Gly Gln Pro Ala Asp Arg Cys			
35	40	45	
Gly Gly Leu His Val Gly Asp Ala Ile Leu Ala Val Asn Gly Val Asn			
50	55	60	
Leu Arg Asp Thr Lys His Lys Glu Ala Val Thr Ile Leu Ser Gln Gln			
65	70	75	80
Arg Gly Glu Ile Glu Phe Glu Val Val Tyr Val Ala Pro Glu Val Asp			
85	90	95	
Ser Asp			

<210> 173
<211> 97
<212> PRT
<213> Homo sapiens

	173		
Ile His Val Thr Ile Leu His Lys Glu Glu Gly Ala Gly Leu Gly Phe			
1	5	10	15
Ser Leu Ala Gly Gly Ala Asp Leu Glu Asn Lys Val Ile Thr Val His			
20	25	30	
Arg Val Phe Pro Asn Gly Leu Ala Ser Gln Glu Gly Thr Ile Gln Lys			
35	40	45	
Gly Asn Glu Val Leu Ser Ile Asn Gly Lys Ser Leu Lys Gly Thr Thr			
50	55	60	
His His Asp Ala Leu Ala Ile Leu Arg Gln Ala Arg Glu Pro Arg Gln			
65	70	75	80
Ala Val Ile Val Thr Arg Lys Leu Thr Pro Glu Glu Phe Ile Val Thr			
85	90	95	
Asp			

<210> 174
<211> 98
<212> PRT
<213> Homo sapiens

<400> 174

Thr	Ala	Glu	Ala	Thr	Val	Cys	Thr	Val	Thr	Leu	Glu	Lys	Met	Ser	Ala
1				5				10					15		
Gly	Leu	Gly	Phe	Ser	Leu	Glu	Gly	Gly	Lys	Gly	Ser	Leu	His	Gly	Asp
				20				25				30			
Lys	Pro	Leu	Thr	Ile	Asn	Arg	Ile	Phe	Lys	Gly	Ala	Ala	Ser	Glu	Gln
				35				40			45				
Ser	Glu	Thr	Val	Gln	Pro	Gly	Asp	Glu	Ile	Leu	Gln	Leu	Gly	Gly	Thr
				50				55			60				
Ala	Met	Gln	Gly	Leu	Thr	Arg	Phe	Glu	Ala	Trp	Asn	Ile	Ile	Lys	Ala
65				70				75			80				
Leu	Pro	Asp	Gly	Pro	Val	Thr	Ile	Val	Ile	Arg	Arg	Lys	Ser	Leu	Gln
				85				90			95				
Ser	Lys														

<210> 175

<211> 98

<212> PRT

<213> Homo sapiens

<400> 175

Leu	Glu	Tyr	Glu	Ile	Thr	Leu	Glu	Arg	Gly	Asn	Ser	Gly	Leu	Gly	Phe
1				5				10				15			
Ser	Ile	Ala	Gly	Gly	Thr	Asp	Asn	Pro	His	Ile	Gly	Asp	Asp	Pro	Ser
				20				25			30				
Ile	Phe	Ile	Thr	Lys	Ile	Ile	Pro	Gly	Gly	Ala	Ala	Ala	Gln	Asp	Gly
				35				40			45				
Arg	Leu	Arg	Val	Asn	Asp	Ser	Ile	Leu	Phe	Val	Asn	Glu	Val	Asp	Val
				50				55			60				
Arg	Glu	Val	Thr	His	Ser	Ala	Ala	Val	Glu	Ala	Leu	Lys	Glu	Ala	Gly
65				70				75			80				
Ser	Ile	Val	Arg	Leu	Tyr	Val	Met	Arg	Arg	Lys	Pro	Pro	Ala	Glu	Asn
				85				90			95				
Ser	Ser														

<210> 176

<211> 105

<212> PRT

<213> Homo sapiens

<400> 176

His	Val	Met	Arg	Arg	Lys	Pro	Pro	Ala	Glu	Lys	Val	Met	Glu	Ile	Lys
1				5				10				15			
Leu	Ile	Lys	Gly	Pro	Lys	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly	Gly	Val
				20				25			30				
Gly	Asn	Gln	His	Ile	Pro	Gly	Asp	Asn	Ser	Ile	Tyr	Val	Thr	Lys	Ile
				35				40			45				
Ile	Glu	Gly	Gly	Ala	Ala	His	Lys	Asp	Gly	Arg	Leu	Gln	Ile	Gly	Asp
				50				55			60				
Lys	Ile	Leu	Ala	Val	Asn	Ser	Val	Gly	Leu	Glu	Asp	Val	Met	His	Glu
65				70				75			80				
Asp	Ala	Val	Ala	Ala	Leu	Lys	Asn	Thr	Tyr	Asp	Val	Val	Tyr	Leu	Lys
				85				90			95				
Val	Ala	Lys	Pro	Ser	Asn	Ala	Tyr	Leu							
				100				105							

<210> 177
<211> 97
<212> PRT
<213> Homo sapiens

<400> 177
Arg Glu Asp Ile Pro Arg Glu Pro Arg Arg Ile Val Ile His Arg Gly
1 5 10 15
Ser Thr Gly Leu Gly Phe Asn Ile Val Gly Gly Glu Asp Gly Glu Gly
20 25 30
Ile Phe Ile Ser Phe Ile Leu Ala Gly Gly Pro Ala Asp Leu Ser Gly
35 40 45
Glu Leu Arg Lys Gly Asp Gln Ile Leu Ser Val Asn Gly Val Asp Leu
50 55 60
Arg Asn Ala Ser His Glu Gln Ala Ala Ile Ala Leu Lys Asn Ala Gly
65 70 75 80
Gln Thr Val Thr Ile Ile Ala Gln Tyr Lys Pro Glu Phe Ile Val Thr
85 90 95
Asp

<210> 178
<211> 88
<212> PRT
<213> Homo sapiens

<400> 178
Leu Ile Arg Ile Thr Pro Asp Glu Asp Gly Lys Phe Gly Phe Asn Leu
1 5 10 15
Lys Gly Gly Val Asp Gln Lys Met Pro Leu Val Val Ser Arg Ile Asn
20 25 30
Pro Glu Ser Pro Ala Asp Thr Cys Ile Pro Lys Leu Asn Glu Gly Asp
35 40 45
Gln Ile Val Leu Ile Asn Gly Arg Asp Ile Ser Glu His Thr His Asp
50 55 60
Gln Val Val Met Phe Ile Lys Ala Ser Arg Glu Ser His Ser Arg Glu
65 70 75 80
Leu Ala Leu Val Ile Arg Arg Arg
85

<210> 179
<211> 88
<212> PRT
<213> Homo sapiens

<400> 179
Ile Arg Met Lys Pro Asp Glu Asn Gly Arg Phe Gly Phe Asn Val Lys
1 5 10 15
Gly Gly Tyr Asp Gln Lys Met Pro Val Ile Val Ser Arg Val Ala Pro
20 25 30
Gly Thr Pro Ala Asp Leu Cys Val Pro Arg Leu Asn Glu Gly Asp Gln
35 40 45
Val Val Leu Ile Asn Gly Arg Asp Ile Ala Glu His Thr His Asp Gln
50 55 60
Val Val Leu Phe Ile Lys Ala Ser Cys Glu Arg His Ser Gly Glu Leu
65 70 75 80
Met Leu Leu Val Arg Pro Asn Ala

<210> 180
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 180
 Pro Glu Arg Glu Ile Thr Leu Val Asn Leu Lys Lys Asp Ala Lys Tyr
 1 5 10 15
 Gly Leu Gly Phe Gln Ile Ile Gly Gly Glu Lys Met Gly Arg Leu Asp
 20 25 30
 Leu Gly Ile Phe Ile Ser Ser Val Ala Pro Gly Gly Pro Ala Asp Phe
 35 40 45
 His Gly Cys Leu Lys Pro Gly Asp Arg Leu Ile Ser Val Asn Ser Val
 50 55 60
 Ser Leu Glu Gly Val Ser His His Ala Ala Ile Glu Ile Leu Gln Asn
 65 70 75 80
 Ala Pro Glu Asp Val Thr Leu Val Ile Ser Gln Pro Lys Glu Lys Ile
 85 90 95
 Ser Lys Val Pro Ser Thr Pro Val His Leu
 100 105

<210> 181
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 181
 Gly Asp Ile Phe Glu Val Glu Leu Ala Lys Asn Asp Asn Ser Leu Gly
 1 5 10 15
 Ile Ser Val Thr Gly Gly Val Asn Thr Ser Val Arg His Gly Gly Ile
 20 25 30
 Tyr Val Lys Ala Val Ile Pro Gln Gly Ala Ala Glu Ser Asp Gly Arg
 35 40 45
 Ile His Lys Gly Asp Arg Val Leu Ala Val Asn Gly Val Ser Leu Glu
 50 55 60
 Gly Ala Thr His Lys Gln Ala Val Glu Thr Leu Arg Asn Thr Gly Gln
 65 70 75 80
 Val Val His Leu Leu Leu Glu Lys Gly Gln Ser Pro Thr Ser Lys
 85 90 95

<210> 182
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 182
 Thr Glu Glu Asn Thr Phe Glu Val Lys Leu Phe Lys Asn Ser Ser Gly
 1 5 10 15
 Leu Gly Phe Ser Phe Ser Arg Glu Asp Asn Leu Ile Pro Glu Gln Ile
 20 25 30
 Asn Ala Ser Ile Val Arg Val Lys Lys Leu Phe Ala Gly Gln Pro Ala
 35 40 45
 Ala Glu Ser Gly Lys Ile Asp Val Gly Asp Val Ile Leu Lys Val Asn
 50 55 60
 Gly Ala Ser Leu Lys Gly Leu Ser Gln Gln Glu Val Ile Ser Ala Leu

<210> 183
<211> 98
<212> PRT
<213> *Homo sapiens*

<210> 184
<211> 94
<212> PRT
<213> *Homo sapiens*

<400> 184
 Met Leu Pro His Leu Leu Pro Asp Ile Thr Leu Thr Cys Asn Lys Glu
 1 5 10 15
 Glu Leu Gly Phe Ser Leu Cys Gly Gly His Asp Ser Leu Tyr Gln Val
 20 25 30
 Val Tyr Ile Ser Asp Ile Asn Pro Arg Ser Val Ala Ala Ile Glu Gly
 35 40 45
 Asn Leu Gln Leu Leu Asp Val Ile His Tyr Val Asn Gly Val Ser Thr
 50 55 60
 Gln Gly Met Thr Leu Glu Glu Val Asn Arg Ala Leu Asp Met Ser Leu
 65 70 75 80
 Pro Ser Leu Val Leu Lys Ala Thr Arg Asn Asp Leu Pro Val
 85 90

<210> 185
<211> 93
<212> PRT
<213> *Homo sapiens*

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<400> 185
Arg Pro Ser Pro Pro Arg Val Arg Ser Val Glu Val Ala Arg Gly Arg
      1           5           10          15
Ala Gly Tyr Gly Phe Thr Leu Ser Gly Gln Ala Pro Cys Val Leu Ser
      20          25          30
Cys Val Met Arg Gly Ser Pro Ala Asp Phe Val Gly Leu Arg Ala Gly

```

35	40	45
Asp Gln Ile Leu Ala Val Asn Glu Ile Asn Val Lys Lys Ala Ser His		
50	55	60
Glu Asp Val Val Lys Leu Ile Gly Lys Cys Ser Gly Val Leu His Met		
65	70	75
Val Ile Ala Glu Gly Val Gly Arg Phe Glu Ser Cys Ser		
85	90	

<210> 186
<211> 96
<212> PRT
<213> Homo sapiens

1	5	10	15
Leu Cys Ser Glu Arg Arg Tyr Arg Gln Ile Thr Ile Pro Arg Gly Lys			
20	25	30	
Asp Gly Phe Gly Phe Thr Ile Cys Cys Asp Ser Pro Val Arg Val Gln			
35	40	45	
Ala Val Asp Ser Gly Gly Pro Ala Glu Arg Ala Gly Leu Gln Gln Leu			
50	55	60	
Asp Thr Val Leu Gln Leu Asn Glu Arg Pro Val Glu His Trp Lys Cys			
65	70	75	80
Val Glu Leu Ala His Glu Ile Arg Ser Cys Pro Ser Glu Ile Ile Leu			
85	90	95	
Leu Val Trp Arg Met Val Pro Gln Val Lys Pro Gly Ile His Arg Asp			

<210> 187
<211> 104
<212> PRT
<213> Homo sapiens

1	5	10	15
Ile Ser Phe Ser Ala Asn Lys Arg Trp Thr Pro Pro Arg Ser Ile Arg			
20	25	30	
Phe Thr Ala Glu Glu Gly Asp Leu Gly Phe Thr Leu Arg Gly Asn Ala			
35	40	45	
Pro Val Gln Val His Phe Leu Asp Pro Tyr Cys Ser Ala Ser Val Ala			
50	55	60	
Gly Ala Arg Glu Gly Asp Tyr Ile Val Ser Ile Gln Leu Val Asp Cys			
65	70	75	80
Lys Trp Leu Thr Leu Ser Glu Val Met Lys Leu Leu Lys Ser Phe Gly			
85	90	95	
Glu Asp Glu Ile Glu Met Lys Val Val Ser Leu Leu Asp Ser Thr Ser			
Ser Met His Asn Lys Ser Ala Thr			
100			

<210> 188
<211> 109
<212> PRT
<213> Homo sapiens

1	5	10	15
Arg Gly Glu Lys Lys Asn Ser Ser Ser Gly Ile Ser Gly Ser Gln Arg			
Arg Tyr Ile Gly Val Met Met Leu Thr Leu Ser Pro Ser Ile Leu Ala			

	20	25	30												
Glu	Leu	Gln	Leu	Arg	Glu	Pro	Ser	Phe	Pro	Asp	Val	Gln	His	Gly	Val
	35	40	45												
Leu	Ile	His	Lys	Val	Ile	Leu	Gly	Ser	Pro	Ala	His	Arg	Ala	Gly	Leu
	50	55	60												
Arg	Pro	Gly	Asp	Val	Ile	Leu	Ala	Ile	Gly	Glu	Gln	Met	Val	Gln	Asn
	65	70	75	80											
Ala	Glu	Asp	Val	Tyr	Glu	Ala	Val	Arg	Thr	Gln	Ser	Gln	Leu	Ala	Val
	85	90	95												
Gln	Ile	Arg	Arg	Gly	Arg	Glu	Thr	Leu	Thr	Leu	Tyr	Val			
	100	105													

<210> 189
<211> 111
<212> PRT
<213> Homo sapiens

	<400> 189														
Glu	Glu	Lys	Thr	Val	Val	Leu	Gln	Lys	Lys	Asp	Asn	Glu	Gly	Phe	Gly
	1	5	10	15											
Phe	Val	Leu	Arg	Gly	Ala	Lys	Ala	Asp	Thr	Pro	Ile	Glu	Glu	Phe	Thr
	20	25	30												
Pro	Thr	Pro	Ala	Phe	Pro	Ala	Leu	Gln	Tyr	Leu	Glu	Ser	Val	Asp	Glu
	35	40	45												
Gly	Gly	Val	Ala	Trp	Gln	Ala	Gly	Leu	Arg	Thr	Gly	Asp	Phe	Leu	Ile
	50	55	60												
Glu	Val	Asn	Asn	Glu	Asn	Val	Val	Lys	Val	Gly	His	Arg	Gln	Val	Val
	65	70	75	80											
Asn	Met	Ile	Arg	Gln	Gly	Gly	Asn	His	Leu	Val	Leu	Lys	Val	Val	Thr
	85	90	95												
Val	Thr	Arg	Asn	Leu	Asp	Pro	Asp	Asp	Thr	Ala	Arg	Lys	Lys	Ala	
	100	105	110												

<210> 190
<211> 110
<212> PRT
<213> Homo sapiens

	<400> 190														
Ser	Asp	Tyr	Val	Ile	Asp	Asp	Lys	Val	Ala	Val	Leu	Gln	Lys	Arg	Asp
	1	5	10	15											
His	Glu	Gly	Phe	Gly	Phe	Val	Leu	Arg	Gly	Ala	Lys	Ala	Glu	Thr	Pro
	20	25	30												
Ile	Glu	Glu	Phe	Thr	Pro	Thr	Pro	Ala	Phe	Pro	Ala	Leu	Gln	Tyr	Leu
	35	40	45												
Glu	Ser	Val	Asp	Val	Glu	Gly	Val	Ala	Trp	Arg	Ala	Gly	Leu	Arg	Thr
	50	55	60												
Gly	Asp	Phe	Leu	Ile	Glu	Val	Asn	Gly	Val	Asn	Val	Val	Lys	Val	Gly
	65	70	75	80											
His	Lys	Gln	Val	Val	Ala	Leu	Ile	Arg	Gln	Gly	Gly	Asn	Arg	Leu	Val
	85	90	95												
Met	Lys	Val	Val	Ser	Val	Thr	Arg	Lys	Pro	Glu	Glu	Asp	Gly		
	100	105	110												

<210> 191
<211> 91
<212> PRT

<213> Homo sapiens

<400> 191

Ile	Tyr	Leu	Glu	Ala	Phe	Leu	Glu	Gly	Gly	Ala	Pro	Trp	Gly	Phe	Thr
1						5				10				15	
Leu	Lys	Gly	Gly	Leu	Glu	His	Gly	Glu	Pro	Leu	Ile	Ile	Ser	Lys	Val
						20				25				30	
Glu	Glu	Gly	Gly	Lys	Ala	Asp	Thr	Leu	Ser	Ser	Lys	Leu	Gln	Ala	Gly
						35			40				45		
Asp	Glu	Val	Val	His	Ile	Asn	Glu	Val	Thr	Leu	Ser	Ser	Ser	Arg	Lys
						50			55				60		
Glu	Ala	Val	Ser	Leu	Val	Lys	Gly	Ser	Tyr	Lys	Thr	Leu	Arg	Leu	Val
						65			70			75			80
Val	Arg	Arg	Asp	Val	Cys	Thr	Asp	Pro	Gly	His					
						85			90						

<210> 192

<211> 83

<212> PRT

<213> Homo sapiens

<400> 192

Ile	Arg	Leu	Cys	Arg	Leu	Val	Arg	Gly	Glu	Gln	Gly	Tyr	Gly	Phe	His
1						5				10				15	
Leu	His	Gly	Glu	Lys	Gly	Arg	Arg	Gly	Gln	Phe	Ile	Arg	Arg	Val	Glu
						20				25				30	
Pro	Gly	Ser	Pro	Ala	Glu	Ala	Ala	Leu	Arg	Ala	Gly	Asp	Arg	Leu	
						35			40			45			
Val	Glu	Val	Asn	Gly	Val	Asn	Val	Glu	Gly	Glu	Thr	His	His	Gln	Val
						50			55			60			
Val	Gln	Arg	Ile	Lys	Ala	Val	Glu	Gly	Gln	Thr	Arg	Leu	Leu	Val	Val
						65			70			75			80
Asp	Gln	Asn													

<210> 193

<211> 84

<212> PRT

<213> Homo sapiens

<400> 193

Ile	Arg	His	Leu	Arg	Lys	Gly	Pro	Gln	Gly	Tyr	Gly	Phe	Asn	Leu	His
1								5		10				15	
Ser	Asp	Lys	Ser	Arg	Pro	Gly	Gln	Tyr	Ile	Arg	Ser	Val	Asp	Pro	Gly
								20		25				30	
Ser	Pro	Ala	Ala	Arg	Ser	Gly	Leu	Arg	Ala	Gln	Asp	Arg	Leu	Ile	Glu
								35		40			45		
Val	Asn	Gly	Gln	Asn	Val	Glu	Gly	Leu	Arg	His	Ala	Glu	Val	Val	Ala
								50		55			60		
Ser	Ile	Lys	Ala	Arg	Glu	Asp	Glu	Ala	Arg	Leu	Leu	Val	Val	Asp	Pro
								65		70			75		80
Glu	Thr	Asp	Glu												

<210> 194

<211> 92

<212> PRT

<213> Homo sapiens

<400> 194

Pro	Gly	Val	Arg	Glu	Ile	His	Leu	Cys	Lys	Asp	Glu	Arg	Gly	Lys	Thr
1				5					10					15	
Gly	Leu	Arg	Leu	Arg	Lys	Val	Asp	Gln	Gly	Leu	Phe	Val	Gln	Leu	Val
					20				25					30	
Gln	Ala	Asn	Thr	Pro	Ala	Ser	Leu	Val	Gly	Leu	Arg	Phe	Gly	Asp	Gln
					35				40					45	
Leu	Leu	Gln	Ile	Asp	Gly	Arg	Asp	Cys	Ala	Gly	Trp	Ser	Ser	His	Lys
					50				55					60	
Ala	His	Gln	Val	Val	Lys	Lys	Ala	Ser	Gly	Asp	Lys	Ile	Val	Val	Val
					65				70					75	
Val	Arg	Asp	Arg	Pro	Phe	Gln	Arg	Thr	Val	Thr	Met				80
					85				90						

<210> 195

<211> 90

<212> PRT

<213> Homo sapiens

<400> 195

Pro	Phe	Gln	Arg	Thr	Val	Thr	Met	His	Lys	Asp	Ser	Met	Gly	His	Val
1					5				10					15	
Gly	Phe	Val	Ile	Lys	Lys	Gly	Lys	Ile	Val	Ser	Leu	Val	Lys	Gly	Ser
					20				25					30	
Ser	Ala	Ala	Arg	Asn	Gly	Leu	Leu	Thr	Asn	His	Tyr	Val	Cys	Glu	Val
					35				40					45	
Asp	Gly	Gln	Asn	Val	Ile	Gly	Leu	Lys	Asp	Lys	Lys	Ile	Met	Glu	Ile
					50				55					60	
Leu	Ala	Thr	Ala	Gly	Asn	Val	Val	Thr	Leu	Thr	Ile	Ile	Pro	Ser	Val
					65				70					75	
Ile	Tyr	Glu	His	Ile	Val	Glu	Phe	Ile	Val						80
					85				90						

<210> 196

<211> 109

<212> PRT

<213> Homo sapiens

<400> 196

Leu	Lys	Glu	Lys	Thr	Val	Leu	Leu	Gln	Lys	Lys	Asp	Ser	Glu	Gly	Phe
1						5			10					15	
Gly	Phe	Val	Leu	Arg	Gly	Ala	Lys	Ala	Gln	Thr	Pro	Ile	Glu	Glu	Phe
						20			25					30	
Thr	Pro	Thr	Pro	Ala	Phe	Pro	Ala	Leu	Gln	Tyr	Leu	Glu	Ser	Val	Asp
						35			40					45	
Glu	Gly	Gly	Val	Ala	Trp	Arg	Ala	Gly	Leu	Arg	Met	Gly	Asp	Phe	Leu
					50				55					60	
Ile	Glu	Val	Asn	Gly	Gln	Asn	Val	Val	Lys	Val	Gly	His	Arg	Gln	Val
					65				70					75	
Val	Asn	Met	Ile	Arg	Gln	Gly	Gly	Asn	Thr	Leu	Met	Val	Lys	Val	Val
					85				90					95	
Met	Val	Thr	Arg	His	Pro	Asp	Met	Asp	Glu	Ala	Val	Gln			
					100				105						

<210> 197

<211> 88
<212> PRT
<213> Homo sapiens

<400> 197
Leu Glu Ile Lys Gln Gly Ile Arg Glu Val Ile Leu Cys Lys Asp Gln
1 5 10 15
Asp Gly Lys Ile Gly Leu Arg Leu Lys Ser Ile Asp Asn Gly Ile Phe
20 25 30
Val Gln Leu Val Gln Ala Asn Ser Pro Ala Ser Leu Val Gly Leu Arg
35 40 45
Phe Gly Asp Gln Val Leu Gln Ile Asn Gly Glu Asn Cys Ala Gly Trp
50 55 60
Ser Ser Asp Lys Ala His Lys Val Leu Lys Gln Ala Phe Gly Glu Lys
65 70 75 80
Ile Thr Met Arg Ile His Arg Asp
85

<210> 198
<211> 75
<212> PRT
<213> Homo sapiens

<400> 198
Arg Asp Arg Pro Phe Glu Arg Thr Ile Thr Met His Lys Asp Ser Thr
1 5 10 15
Gly His Val Gly Phe Ile Phe Lys Asn Gly Lys Ile Thr Ser Ile Val
20 25 30
Lys Asp Ser Ser Ala Ala Arg Asn Gly Leu Leu Thr Glu His Asn Ile
35 40 45
Cys Glu Ile Asn Gly Gln Asn Val Ile Gly Leu Lys Asp Ser Gln Ile
50 55 60
Ala Asp Ile Leu Ser Thr Ser Gly Asn Ser Ser
65 70 75

<210> 199
<211> 94
<212> PRT
<213> Homo sapiens

<400> 199
Gln Arg Arg Arg Val Thr Val Arg Lys Ala Asp Ala Gly Gly Leu Gly
1 5 10 15
Ile Ser Ile Lys Gly Gly Arg Glu Asn Lys Met Pro Ile Leu Ile Ser
20 25 30
Lys Ile Phe Lys Gly Leu Ala Ala Asp Gln Thr Glu Ala Leu Phe Val
35 40 45
Gly Asp Ala Ile Leu Ser Val Asn Gly Glu Asp Leu Ser Ser Ala Thr
50 55 60
His Asp Glu Ala Val Gln Val Leu Lys Lys Thr Gly Lys Glu Val Val
65 70 75 80
Leu Glu Val Lys Tyr Met Lys Asp Val Ser Pro Tyr Phe Lys
85 90

<210> 200
<211> 89
<212> PRT

<213> Homo sapiens

<400> 200
Ile Arg Val Val Lys Gln Glu Ala Gly Gly Leu Gly Ile Ser Ile Lys
1 5 10 15
Gly Gly Arg Glu Asn Arg Met Pro Ile Leu Ile Ser Lys Ile Phe Pro
20 25 30
Gly Leu Ala Ala Asp Gln Ser Arg Ala Leu Arg Leu Gly Asp Ala Ile
35 40 45
Leu Ser Val Asn Gly Thr Asp Leu Arg Gln Ala Thr His Asp Gln Ala
50 55 60
Val Gln Ala Leu Lys Arg Ala Gly Lys Glu Val Leu Leu Glu Val Lys
65 70 75 80
Phe Ile Arg Glu Phe Ile Val Thr Asp
85

<210> 201

<211> 101

<212> PRT

<213> Homo sapiens

<400> 201
Glu Pro Phe Tyr Ser Gly Glu Arg Thr Val Thr Ile Arg Arg Gln Thr
1 5 10 15
Val Gly Gly Phe Gly Leu Ser Ile Lys Gly Gly Ala Glu His Asn Ile
20 25 30
Pro Val Val Val Ser Lys Ile Ser Lys Glu Gln Arg Ala Glu Leu Ser
35 40 45
Gly Leu Leu Phe Ile Gly Asp Ala Ile Leu Gln Ile Asn Gly Ile Asn
50 55 60
Val Arg Lys Cys Arg His Glu Glu Val Val Gln Val Leu Arg Asn Ala
65 70 75 80
Gly Glu Glu Val Thr Leu Thr Val Ser Phe Leu Lys Arg Ala Pro Ala
85 90 95
Phe Leu Lys Leu Pro
100

<210> 202

<211> 99

<212> PRT

<213> Homo sapiens

<400> 202
Ser His Gln Gly Arg Asn Arg Arg Thr Val Thr Leu Arg Arg Gln Pro
1 5 10 15
Val Gly Gly Leu Gly Leu Ser Ile Lys Gly Gly Ser Glu His Asn Val
20 25 30
Pro Val Val Ile Ser Lys Ile Phe Glu Asp Gln Ala Ala Asp Gln Thr
35 40 45
Gly Met Leu Phe Val Gly Asp Ala Val Leu Gln Val Asn Gly Ile His
50 55 60
Val Glu Asn Ala Thr His Glu Glu Val Val His Leu Leu Arg Asn Ala
65 70 75 80
Gly Asp Glu Val Thr Ile Thr Val Glu Tyr Leu Arg Glu Ala Pro Ala
85 90 95
Phe Leu Lys

<210> 203
<211> 91
<212> PRT
<213> Homo sapiens

<400> 203
Arg Gly Glu Thr Lys Glu Val Glu Val Thr Lys Thr Glu Asp Ala Leu
1 5 10 15
Gly Leu Thr Ile Thr Asp Asn Gly Ala Gly Tyr Ala Phe Ile Lys Arg
20 25 30
Ile Lys Glu Gly Ser Ile Ile Asn Arg Ile Glu Ala Val Cys Val Gly
35 40 45
Asp Ser Ile Glu Ala Ile Asn Asp His Ser Ile Val Gly Cys Arg His
50 55 60
Tyr Glu Val Ala Lys Met Leu Arg Glu Leu Pro Lys Ser Gln Pro Phe
65 70 75 80
Thr Leu Arg Leu Val Gln Pro Lys Arg Ala Phe
85 90

<210> 204
<211> 88
<212> PRT
<213> Homo sapiens

<400> 204
His Ser Ile His Ile Glu Lys Ser Asp Thr Ala Ala Asp Thr Tyr Gly
1 5 10 15
Phe Ser Leu Ser Ser Val Glu Glu Asp Gly Ile Arg Arg Leu Tyr Val
20 25 30
Asn Ser Val Lys Glu Thr Gly Leu Ala Ser Lys Lys Gly Leu Lys Ala
35 40 45
Gly Asp Glu Ile Leu Glu Ile Asn Asn Arg Ala Ala Asp Ala Leu Asn
50 55 60
Ser Ser Met Leu Lys Asp Phe Leu Ser Gln Pro Ser Leu Gly Leu Leu
65 70 75 80
Val Arg Thr Tyr Pro Glu Leu Glu
85

<210> 205
<211> 97
<212> PRT
<213> Homo sapiens

<400> 205
Pro Leu Asn Val Tyr Asp Val Gln Leu Thr Lys Thr Gly Ser Val Cys
1 5 10 15
Asp Phe Gly Phe Ala Val Thr Ala Gln Val Asp Glu Arg Gln His Leu
20 25 30
Ser Arg Ile Phe Ile Ser Asp Val Leu Pro Asp Gly Leu Ala Tyr Gly
35 40 45
Glu Gly Leu Arg Lys Gly Asn Glu Ile Met Thr Leu Asn Gly Glu Ala
50 55 60
Val Ser Asp Leu Asp Leu Lys Gln Met Glu Ala Leu Phe Ser Glu Lys
65 70 75 80
Ser Val Gly Leu Thr Leu Ile Ala Arg Pro Pro Asp Thr Lys Ala Thr
85 90 95
Leu

<210> 206
<211> 103
<212> PRT
<213> Homo sapiens

<400> 206

Gln Arg Val Glu Ile His Lys Leu Arg Gln Gly Glu Asn Leu Ile Leu
1 5 10 15
Gly Phe Ser Ile Gly Gly Ile Asp Gln Asp Pro Ser Gln Asn Pro
20 25 30
Phe Ser Glu Asp Lys Thr Asp Lys Gly Ile Tyr Val Thr Arg Val Ser
35 40 45
Glu Gly Gly Pro Ala Glu Ile Ala Gly Leu Gln Ile Gly Asp Lys Ile
50 55 60
Met Gln Val Asn Gly Trp Asp Met Thr Met Val Thr His Asp Gln Ala
65 70 75 80
Arg Lys Arg Leu Thr Lys Arg Ser Glu Glu Val Val Arg Leu Leu Val
85 90 95
Thr Arg Gln Ser Leu Gln Lys
100

<210> 207
<211> 86
<212> PRT
<213> Homo sapiens

<400> 207

Arg Lys Glu Val Glu Val Phe Lys Ser Glu Asp Ala Leu Gly Leu Thr
1 5 10 15
Ile Thr Asp Asn Gly Ala Gly Tyr Ala Phe Ile Lys Arg Ile Lys Glu
20 25 30
Gly Ser Val Ile Asp His Ile His Leu Ile Ser Val Gly Asp Met Ile
35 40 45
Glu Ala Ile Asn Gly Gln Ser Leu Leu Gly Cys Arg His Tyr Glu Val
50 55 60
Ala Arg Leu Leu Lys Glu Leu Pro Arg Gly Arg Thr Phe Thr Leu Lys
65 70 75 80
Leu Thr Glu Pro Arg Lys
85

<210> 208
<211> 91
<212> PRT
<213> Homo sapiens

<400> 208

His Ser His Pro Arg Val Val Glu Leu Pro Lys Thr Asp Glu Gly Leu
1 5 10 15
Gly Phe Asn Val Met Gly Gly Lys Glu Gln Asn Ser Pro Ile Tyr Ile
20 25 30
Ser Arg Ile Ile Pro Gly Gly Val Ala Glu Arg His Gly Gly Leu Lys
35 40 45
Arg Gly Asp Gln Leu Leu Ser Val Asn Gly Val Ser Val Glu Gly Glu
50 55 60
His His Glu Lys Ala Val Glu Leu Leu Lys Ala Ala Lys Asp Ser Val

65	70	75	80
Lys Leu Val Val Arg Tyr Thr Pro Lys Val Leu			
85	90		

<210> 209

<211> 96

<212> PRT

<213> Homo sapiens

<400> 209

Ile Ser Asn Gln Lys Arg Gly Val Lys Val Leu Lys Gln Glu Leu Gly			
1	5	10	15
Gly Leu Gly Ile Ser Ile Lys Gly Gly Lys Glu Asn Lys Met Pro Ile			
20	25	30	
Leu Ile Ser Lys Ile Phe Lys Gly Leu Ala Ala Asp Gln Thr Gln Ala			
35	40	45	
Leu Tyr Val Gly Asp Ala Ile Leu Ser Val Asn Gly Ala Asp Leu Arg			
50	55	60	
Asp Ala Thr His Asp Glu Ala Val Gln Ala Leu Lys Arg Ala Gly Lys			
65	70	75	80
Glu Val Leu Leu Glu Val Lys Tyr Met Arg Glu Ala Thr Pro Tyr Val			
85	90	95	

<210> 210

<211> 110

<212> PRT

<213> Homo sapiens

<400> 210

Ile His Phe Ser Asn Ser Glu Asn Cys Lys Glu Leu Gln Leu Glu Lys			
1	5	10	15
His Lys Gly Glu Ile Leu Gly Val Val Val Val Glu Ser Gly Trp Gly			
20	25	30	
Ser Ile Leu Pro Thr Val Ile Leu Ala Asn Met Met Asn Gly Gly Pro			
35	40	45	
Ala Ala Arg Ser Gly Lys Leu Ser Ile Gly Asp Gln Ile Met Ser Ile			
50	55	60	
Asn Gly Thr Ser Leu Val Gly Leu Pro Leu Ala Thr Cys Gln Gly Ile			
65	70	75	80
Ile Lys Gly Leu Lys Asn Gln Thr Gln Val Lys Leu Asn Ile Val Ser			
85	90	95	
Cys Pro Pro Val Thr Thr Val Leu Ile Lys Arg Asn Ser Ser			
100	105	110	

<210> 211

<211> 94

<212> PRT

<213> Homo sapiens

<400> 211

Ile Pro Pro Val Thr Thr Val Leu Ile Lys Arg Pro Asp Leu Lys Tyr			
1	5	10	15
Gln Leu Gly Phe Ser Val Gln Asn Gly Ile Ile Cys Ser Leu Met Arg			
20	25	30	
Gly Gly Ile Ala Glu Arg Gly Gly Val Arg Val Gly His Arg Ile Ile			
35	40	45	
Glu Ile Asn Gly Gln Ser Val Val Ala Thr Ala His Glu Lys Ile Val			

50	55	60	
Gln Ala Leu Ser Asn Ser Val Gly Glu Ile His Met Lys Thr Met Pro			
65	70	75	80
Ala Ala Met Phe Arg Leu Leu Thr Gly Gln Glu Asn Ser Ser			
	85	90	

<210> 212
<211> 101
<212> PRT
<213> Homo sapiens

<400> 212			
Ile Trp Glu Gln His Thr Val Thr Leu His Arg Ala Pro Gly Phe Gly			
1	5	10	15
Phe Gly Ile Ala Ile Ser Gly Gly Arg Asp Asn Pro His Phe Gln Ser			
20	25	30	
Gly Glu Thr Ser Ile Val Ile Ser Asp Val Leu Lys Gly Gly Pro Ala			
35	40	45	
Glu Gly Gln Leu Gln Glu Asn Asp Arg Val Ala Met Val Asn Gly Val			
50	55	60	
Ser Met Asp Asn Val Glu His Ala Phe Ala Val Gln Gln Leu Arg Lys			
65	70	75	80
Ser Gly Lys Asn Ala Lys Ile Thr Ile Arg Arg Lys Lys Lys Val Gln			
85	90	95	
Ile Pro Asn Ser Ser			
	100		

<210> 213
<211> 95
<212> PRT
<213> Homo sapiens

<400> 213			
Ile Ser Ser Gln Pro Ala Lys Pro Thr Lys Val Thr Leu Val Lys Ser			
1	5	10	15
Arg Lys Asn Glu Glu Tyr Gly Leu Arg Leu Ala Ser His Ile Phe Val			
20	25	30	
Lys Glu Ile Ser Gln Asp Ser Leu Ala Ala Arg Asp Gly Asn Ile Gln			
35	40	45	
Glu Gly Asp Val Val Leu Lys Ile Asn Gly Thr Val Thr Glu Asn Met			
50	55	60	
Ser Leu Thr Asp Ala Lys Thr Leu Ile Glu Arg Ser Lys Gly Lys Leu			
65	70	75	80
Lys Met Val Val Gln Arg Asp Arg Ala Thr Leu Leu Asn Ser Ser			
85	90	95	

<210> 214
<211> 90
<212> PRT
<213> Homo sapiens

<400> 214			
Ile Arg Met Lys Leu Val Lys Phe Arg Lys Gly Asp Ser Val Gly Leu			
1	5	10	15
Arg Leu Ala Gly Gly Asn Asp Val Gly Ile Phe Val Ala Gly Val Leu			
20	25	30	
Glu Asp Ser Pro Ala Ala Lys Glu Gly Leu Glu Glu Gly Asp Gln Ile			

35	40	45
Leu Arg Val Asn Asn Val Asp Phe Thr Asn Ile Ile Arg Glu Glu Ala		
50	55	60
Val Leu Phe Leu Leu Asp Leu Pro Lys Gly Glu Glu Val Thr Ile Leu		
65	70	75
Ala Gln Lys Lys Lys Asp Val Phe Ser Asn		
85	90	

<210> 215
<211> 96
<212> PRT
<213> Homo sapiens

<400> 215			
Leu Ile Trp Glu Gln Tyr Thr Val Thr Leu Gln Lys Asp Ser Lys Arg			
1	5	10	15
Gly Phe Gly Ile Ala Val Ser Gly Gly Arg Asp Asn Pro His Phe Glu			
20	25	30	
Asn Gly Glu Thr Ser Ile Val Ile Ser Asp Val Leu Pro Gly Gly Pro			
35	40	45	
Ala Asp Gly Leu Leu Gln Glu Asn Asp Arg Val Val Met Val Asn Gly			
50	55	60	
Thr Pro Met Glu Asp Val Leu His Ser Phe Ala Val Gln Gln Leu Arg			
65	70	75	80
Lys Ser Gly Lys Val Ala Ala Ile Val Val Lys Arg Pro Arg Lys Val			
85	90	95	

<210> 216
<211> 79
<212> PRT
<213> Homo sapiens

<400> 216			
Arg Val Leu Leu Met Lys Ser Arg Ala Asn Glu Glu Tyr Gly Leu Arg			
1	5	10	15
Leu Gly Ser Gln Ile Phe Val Lys Glu Met Thr Arg Thr Gly Leu Ala			
20	25	30	
Thr Lys Asp Gly Asn Leu His Glu Gly Asp Ile Ile Leu Lys Ile Asn			
35	40	45	
Gly Thr Val Thr Glu Asn Met Ser Leu Thr Asp Ala Arg Lys Leu Ile			
50	55	60	
Glu Lys Ser Arg Gly Lys Leu Gln Leu Val Val Leu Arg Asp Ser			
65	70	75	

<210> 217
<211> 90
<212> PRT
<213> Homo sapiens

<400> 217			
His Ala Pro Asn Thr Lys Met Val Arg Phe Lys Lys Gly Asp Ser Val			
1	5	10	15
Gly Leu Arg Leu Ala Gly Gly Asn Asp Val Gly Ile Phe Val Ala Gly			
20	25	30	
Ile Gln Glu Gly Thr Ser Ala Glu Gln Glu Gly Leu Gln Glu Gly Asp			
35	40	45	
Gln Ile Leu Lys Val Asn Thr Gln Asp Phe Arg Gly Leu Val Arg Glu			

50	55	60
Asp Ala Val Leu Tyr	Leu Leu Glu Ile Pro Lys	Gly Glu Met Val Thr
65	70	75
Ile Leu Ala Gln Ser Arg Ala Asp Val Tyr		
	85	90

<210> 218
<211> 106
<212> PRT
<213> Homo sapiens

<400> 218			
Ile Pro Gly Asn Ser Thr Ile Trp Glu Gln His Thr Ala Thr Leu Ser			
1	5	10	15
Lys Asp Pro Arg Arg Gly Phe Gly Ile Ala Ile Ser Gly Gly Arg Asp			
20	25	30	
Arg Pro Gly Gly Ser Met Val Val Ser Asp Val Val Pro Gly Gly Pro			
35	40	45	
Ala Glu Gly Arg Leu Gln Thr Gly Asp His Ile Val Met Val Asn Gly			
50	55	60	
Val Ser Met Glu Asn Ala Thr Ser Ala Phe Ala Ile Gln Ile Leu Lys			
65	70	75	80
Thr Cys Thr Lys Met Ala Asn Ile Thr Val Lys Arg Pro Arg Arg Ile			
85	90	95	
His Leu Pro Ala Glu Phe Ile Val Thr Asp			
100	105		

<210> 219
<211> 98
<212> PRT
<213> Homo sapiens

<400> 219			
Gln Asp Val Gln Met Lys Pro Val Lys Ser Val Leu Val Lys Arg Arg			
1	5	10	15
Asp Ser Glu Glu Phe Gly Val Lys Leu Gly Ser Gln Ile Phe Ile Lys			
20	25	30	
His Ile Thr Asp Ser Gly Leu Ala Ala Arg His Arg Gly Leu Gln Glu			
35	40	45	
Gly Asp Leu Ile Leu Gln Ile Asn Gly Val Ser Ser Gln Asn Leu Ser			
50	55	60	
Leu Asn Asp Thr Arg Arg Leu Ile Glu Lys Ser Glu Gly Lys Leu Ser			
65	70	75	80
Leu Leu Val Leu Arg Asp Arg Gly Gln Phe Leu Val Asn Ile Pro Asn			
85	90	95	
Ser Ser			

<210> 220
<211> 104
<212> PRT
<213> Homo sapiens

<400> 220			
Arg Gly Tyr Ser Pro Asp Thr Arg Val Val Arg Phe Leu Lys Gly Lys			
1	5	10	15
Ser Ile Gly Leu Arg Leu Ala Gly Gly Asn Asp Val Gly Ile Phe Val			

	20	25	30												
Ser	Gly	Val	Gln	Ala	Gly	Ser	Pro	Ala	Asp	Gly	Gln	Gly	Ile	Gln	Glu
		35			40					45					
Gly	Asp	Gln	Ile	Leu	Gln	Val	Asn	Asp	Val	Pro	Phe	Gln	Asn	Leu	Thr
		50			55					60					
Arg	Glu	Glu	Ala	Val	Gln	Phe	Leu	Leu	Gly	Leu	Pro	Pro	Gly	Glu	Glu
		65			70				75				80		
Met	Glu	Leu	Val	Thr	Gln	Arg	Lys	Gln	Asp	Ile	Phe	Trp	Lys	Met	Val
						85			90				95		
Gln	Ser	Glu	Phe	Ile	Val	Thr	Asp								
					100										

<210> 221
<211> 10
<212> PRT
<213> Homo sapiens

<400> 221
Gly Tyr Cys Arg Asn Cys Ile Arg Lys Gln
1 5 10

<210> 222
<211> 10
<212> PRT
<213> Homo sapiens

<400> 222
Trp Thr Thr Cys Met Glu Asp Leu Leu Pro
1 5 10

<210> 223
<211> 10
<212> PRT
<213> Homo sapiens

<400> 223
Gly Ile Cys Arg Leu Cys Lys His Phe Gln
1 5 10

<210> 224
<211> 10
<212> PRT
<213> Homo sapiens

<400> 224
Lys Gly Leu Cys Arg Gln Cys Lys Gln Ile
1 5 10

<210> 225
<211> 10
<212> PRT
<213> Homo sapiens

<400> 225
Trp Leu Arg Cys Thr Val Arg Ile Pro Gln

1

5

10

<210> 226
<211> 10
<212> PRT
<213> Homo sapiens

<400> 226
Arg Gln Cys Lys His Phe Tyr Asn Asp Trp
1 5 10

<210> 227
<211> 10
<212> PRT
<213> Homo sapiens

<400> 227
Cys Arg Asn Cys Ile Ser His Glu Gly Arg
1 5 10

<210> 228
<211> 10
<212> PRT
<213> Homo sapiens

<400> 228
Cys Cys Arg Asn Cys Tyr Glu His Glu Gly
1 5 10

<210> 229
<211> 10
<212> PRT
<213> Homo sapiens

<400> 229
Ser Ser Arg Thr Arg Arg Glu Thr Gln Leu
1 5 10

<210> 230
<211> 10
<212> PRT
<213> Homo sapiens

<400> 230
Arg Leu Gln Arg Arg Arg Glu Thr Gln Val
1 5 10

<210> 231
<211> 10
<212> PRT
<213> Homo sapiens

<400> 231
Trp Arg Arg Pro Arg Thr Glu Thr Gln Val

1

5

10

<210> 232
<211> 10
<212> PRT
<213> Homo sapiens

<400> 232
Trp Lys Pro Thr Arg Arg Glu Thr Glu Val
1 5 10

<210> 233
<211> 10
<212> PRT
<213> Homo sapiens

<400> 233
Arg Arg Thr Leu Arg Arg Glu Thr Gln Val
1 5 10

<210> 234
<211> 10
<212> PRT
<213> Homo sapiens

<400> 234
Arg Arg Leu Thr Arg Arg Glu Thr Gln Val
1 5 10

<210> 235
<211> 10
<212> PRT
<213> Homo sapiens

<400> 235
Arg Leu Arg Arg Arg Arg Glu Thr Gln Val
1 5 10

<210> 236
<211> 10
<212> PRT
<213> Homo sapiens

<400> 236
Arg Leu Gln Arg Arg Asn Glu Thr Gln Val
1 5 10

<210> 237
<211> 10
<212> PRT
<213> Homo sapiens

<400> 237
Arg Leu Gln Arg Arg Val Thr Gln Val

1

5

10

<210> 238
<211> 10
<212> PRT
<213> Homo sapiens

<400> 238
Thr Ser Arg Glu Pro Arg Glu Ser Thr Val
1 5 10

<210> 239
<211> 10
<212> PRT
<213> Homo sapiens

<400> 239
Gln Arg Gln Ala Arg Ser Glu Thr Leu Val
1 5 10

<210> 240
<211> 10
<212> PRT
<213> Homo sapiens

<400> 240
Arg Leu Gln Arg Arg Arg Gln Thr Gln Val
1 5 10

<210> 241
<211> 10
<212> PRT
<213> Homo sapiens

<400> 241
Arg Leu Gln Arg Arg Arg Glu Thr Ala Leu
1 5 10

<210> 242
<211> 10
<212> PRT
<213> Homo sapiens

<400> 242
Thr Ser Arg Gln Ala Thr Glu Ser Thr Val
1 5 10

<210> 243
<211> 10
<212> PRT
<213> Homo sapiens

<400> 243
Arg Arg Arg Thr Arg Gln Glu Thr Gln Val

1

5

10

<210> 244
<211> 10
<212> PRT
<213> Homo sapiens

<400> 244
Arg Arg Arg Glu Ala Thr Glu Thr Gln Val
1 5 10

<210> 245
<211> 10
<212> PRT
<213> Homo sapiens

<400> 245
Arg Pro Arg Arg Gln Thr Glu Thr Gln Val
1 5 10

<210> 246
<211> 10
<212> PRT
<213> Homo sapiens

<400> 246
Arg His Thr Thr Ala Thr Glu Ser Ala Val
1 5 10

<210> 247
<211> 10
<212> PRT
<213> Homo sapiens

<400> 247
Thr Ser Arg Gln Ala Thr Glu Ser Thr Val
1 5 10

<210> 248
<211> 10
<212> PRT
<213> Homo sapiens

<400> 248
Arg Cys Trp Arg Pro Ser Ala Thr Val Val
1 5 10

<210> 249
<211> 10
<212> PRT
<213> Homo sapiens

<400> 249
Pro Pro Arg Gln Arg Ser Glu Thr Gln Val

1

5

10

<210> 250		
<211> 24		
<212> DNA		
<213> Homo sapiens		
<400> 250		
aaaagatcta caatactatg gcgc		24
<210> 251		
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taggctcgag catacttaat attatac		27
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<210> 272		

<211> 225
 <212> PRT
 <213> Homo sapiens

<400> 272
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 1 5 10 15
 Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
 20 25 30
 Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
 35 40 45
 Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
 50 55 60
 Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
 65 70 75 80
 Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
 85 90 95
 Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
 100 105 110
 Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
 115 120 125
 Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
 130 135 140
 Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
 145 150 155 160
 Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
 165 170 175
 Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
 180 185 190
 Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
 195 200 205
 Thr Phe Gly Gly Asp His Pro Pro Lys Ser Asp Leu Ile Glu Gly
 210 215 220
 Arg
 225

<210> 273
 <211> 24
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<400> 273
 aatggggatc cagctcatta aagg

24

<210> 274
 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 274
 atacataactt gtggaattcg ccac

24

<210> 275
 <211> 26
 <212> DNA
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<400> 275
 cacggatccc ttctgagttg aaaggc

26

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aggatccaga tgtcctacat ccc		23
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ggaattcatg gactgctgca cg		23
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gacggatccc cctgctgcac ggccttctg		29
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gacgaattcc cctgctgcac ggccttctg		29
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ctagaattcg ggccagccgg tcacc		25
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Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Ser Ile Ala Gly Gly Val		
1 5 10 15		
Gly Asn Gln His Ile Pro Gly Asp Asn Ser Ile Tyr Val Thr Lys Ile		
20 25 30		
Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile Gly Asp		
35 40 45		
Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr His Glu		
50 55 60		
Glu Ala Val Thr Ala Leu Lys Asn Thr Ser Asp Phe Val Tyr Leu Lys		
65 70 75 80		
Val Ala		
<210> 288		
<211> 101		
<212> PRT		
<213> Homo sapiens		
<400> 288		
Pro Ser Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser		
1 5 10 15		
Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu		
20 25 30		
Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp		

35	40	45
Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys		
50	55	60
Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile		
65	70	75
Pro Ile Gly Ala Ser Val Asp Leu Glu Leu Cys Arg Gly Tyr Pro Leu		
85	90	95
Pro Phe Asp Pro Asp		
100		

<210> 289
<211> 102
<212> PRT
<213> Homo sapiens

1	5	10	15
Gln Arg Val Glu Ile His Lys Leu Arg Gln Gly Glu Asn Leu Ile Leu			
20	25	30	
Gly Phe Ser Ile Gly Gly Ile Asp Gln Asp Pro Ser Gln Asn Pro			
35	40	45	
Phe Ser Glu Asp Lys Thr Asp Lys Gly Ile Tyr Val Thr Arg Val Ser			
50	55	60	
Glu Gly Gly Pro Ala Glu Ile Ala Gly Leu Gln Ile Gly Asp Lys Ile			
65	70	75	80
Met Gln Val Asn Gly Trp Asp Met Thr Met Val Thr His Asp Gln Ala			
85	90	95	
Arg Lys Arg Leu Thr Lys Arg Ser Glu Glu Val Val Arg Leu Leu Val			
100			
Thr Arg Gln Ser Leu Gln			

<210> 290
<211> 122
<212> PRT
<213> Homo sapiens

1	5	10	15
20	25	30	
Glu Ile His Lys Leu Arg Gln Gly Glu Asn Leu Ile Leu Gly Phe Ser			
35	40	45	
Ile Gly Gly Ile Asp Gln Asp Pro Ser Gln Asn Pro Phe Ser Glu			
50	55	60	
Asp Lys Thr Asp Lys Gly Ile Tyr Val Thr Arg Val Ser Glu Gly Gly			
65	70	75	80
Pro Ala Glu Ile Ala Gly Leu Gln Ile Gly Asp Lys Ile Met Gln Val			
85	90	95	
Asn Gly Trp Asp Met Thr Met Val Thr His Asp Gln Ala Arg Lys Arg			
100	105	110	
Leu Thr Lys Arg Ser Glu Glu Val Val Arg Leu Leu Val Thr Arg Gln			
115	120		
Ser Leu Gln Lys Ala Val Gln Gln Ser Met			

<210> 291
<211> 125
<212> PRT

<213> Homo sapiens

<400> 291

Glu	Met	Ser	Tyr	Ile	Pro	Gly	Gln	Pro	Val	Thr	Ala	Val	Val	Gln	Arg
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Val	Glu	Ile	His	Lys	Leu	Arg	Gln	Gly	Glu	Asn	Leu	Ile	Leu	Gly	Phe
				20				25					30		
Ser	Ile	Gly	Gly	Gly	Ile	Asp	Gln	Asp	Pro	Ser	Gln	Asn	Pro	Phe	Ser
				35			40				45				
Glu	Asp	Lys	Thr	Asp	Lys	Gly	Ile	Tyr	Val	Thr	Arg	Val	Ser	Glu	Gly
				50			55			60					
Gly	Pro	Ala	Glu	Ile	Ala	Gly	Leu	Gln	Ile	Gly	Asp	Lys	Ile	Met	Gln
				65			70		75			80			
Val	Asn	Gly	Trp	Asp	Met	Thr	Met	Val	Thr	His	Asp	Gln	Ala	Arg	Lys
				85			90			95					
Arg	Leu	Thr	Lys	Arg	Ser	Glu	Glu	Val	Val	Arg	Leu	Leu	Val	Thr	Arg
				100			105			110					
Gln	Ser	Leu	Gln	Lys	Ala	Val	Gln	Gln	Ser	Met	Leu	Ser			
				115			120			125					

<210> 292

<211> 117

<212> PRT

<213> Homo sapiens

<400> 292

Pro	Gly	Gln	Pro	Val	Thr	Ala	Val	Val	Gln	Arg	Val	Glu	Ile	His	Lys
1				5				10			15				
Leu	Arg	Gln	Gly	Glu	Asn	Leu	Ile	Leu	Gly	Phe	Ser	Ile	Gly	Gly	Gly
				20			25			30					
Ile	Asp	Gln	Asp	Pro	Ser	Gln	Asn	Pro	Phe	Ser	Glu	Asp	Lys	Thr	Asp
				35			40			45					
Lys	Gly	Ile	Tyr	Val	Thr	Arg	Val	Ser	Glu	Gly	Gly	Pro	Ala	Glu	Ile
				50			55			60					
Ala	Gly	Leu	Gln	Ile	Gly	Asp	Lys	Ile	Met	Gln	Val	Asn	Gly	Trp	Asp
				65			70		75			80			
Met	Thr	Met	Val	Thr	His	Asp	Gln	Ala	Arg	Lys	Arg	Leu	Thr	Lys	Arg
				85			90			95					
Ser	Glu	Glu	Val	Val	Arg	Leu	Leu	Val	Thr	Arg	Gln	Ser	Leu	Gln	Lys
				100			105			110					
Ala	Val	Gln	Gln	Ser											
				115											

<210> 293

<211> 72

<212> PRT

<213> Homo sapiens

<400> 293

Arg	Lys	Ser	Ser	Arg	Gly	Phe	Gly	Phe	Thr	Val	Val	Gly	Gly	Asp	Glu
1				5				10				15			
Pro	Asp	Glu	Phe	Leu	Gln	Ile	Lys	Ser	Leu	Val	Leu	Asp	Gly	Pro	Ala
				20			25			30					
Ala	Leu	Asp	Gly	Lys	Met	Glu	Thr	Gly	Asp	Val	Ile	Val	Ser	Val	Asn
				35			40			45					
Asp	Thr	Cys	Val	Leu	Gly	His	Thr	His	Ala	Gln	Val	Val	Lys	Ile	Phe
				50			55			60					
Gln	Ser	Ile	Pro	Ile	Gly	Ala	Ser								

<210> 294
<211> 76
<212> PRT
<213> Homo sapiens

<400> 294
Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr
1 5 10 15
Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu
20 25 30
Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met Glu Thr Gly Asp
35 40 45
Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His Thr His Ala
50 55 60
Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly
65 70 75

<210> 295
<211> 85
<212> PRT
<213> Homo sapiens

<400> 295
Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr
1 5 10 15
Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu
20 25 30
Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met Glu Thr Gly Asp
35 40 45
Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His Thr His Ala
50 55 60
Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly Ala Ser Val Asp
65 70 75 80
Leu Glu Leu Cys Arg
85

<210> 296
<211> 78
<212> PRT
<213> Homo sapiens

<400> 296
Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro
1 5 10 15
Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala
20 25 30
Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp
35 40 45
Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln
50 55 60
Ser Ile Pro Ile Gly Ala Ser Val Asp Leu Glu Leu Cys Arg
65 70 75

<210> 297

<211> 88
<212> PRT
<213> Homo sapiens

<400> 297
Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr
1 5 10 15
Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu
20 25 30
Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met Glu Thr Gly Asp
35 40 45
Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His Thr His Ala
50 55 60
Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly Ala Ser Val Asp
65 70 75 80
Leu Glu Leu Cys Arg Gly Tyr Pro
85

<210> 298
<211> 88
<212> PRT
<213> Homo sapiens

<400> 298
Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe
1 5 10 15
Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile
20 25 30
Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met Glu
35 40 45
Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His
50 55 60
Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly Ala
65 70 75 80
Ser Val Asp Leu Glu Leu Cys Arg
85

<210> 299
<211> 81
<212> PRT
<213> Homo sapiens

<400> 299
Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe
1 5 10 15
Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile
20 25 30
Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met 'Glu
35 40 45
Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His
50 55 60
Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly Ala
65 70 75 80
Ser

<210> 300

<211> 94
<212> PRT
<213> Homo sapiens

<400> 300
Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg
1 5 10 15
Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu
20 25 30
Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys
35 40 45
Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys Val Leu
50 55 60
Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile
65 70 75 80
Gly Ala Ser Val Asp Leu Glu Leu Cys Arg Gly Tyr Pro Leu
85 90

<210> 301
<211> 99
<212> PRT
<213> Homo sapiens

<400> 301
Ser Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser Ser
1 5 10 15
Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu Phe
20 25 30
Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp Gly
35 40 45
Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys Val
50 55 60
Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile Pro
65 70 75 80
Ile Gly Ala Ser Val Asp Leu Glu Leu Cys Arg Gly Tyr Pro Leu Pro
85 90 95
Phe Asp Pro

<210> 302
<211> 72
<212> PRT
<213> Homo sapiens

<400> 302
Arg Lys Ser Ala Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 303

<211> 72
 <212> PRT
 <213> Homo sapiens

<400> 303
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Glu Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 304
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 304
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Leu Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 305
 <211> 72
 <212> PRT
 <213> Homo sapiens.

<400> 305
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ser Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 306
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 306
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu

1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Arg Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 307

<211> 72

<212> PRT

<213> Homo sapiens

<400> 307

Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ala Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 308

<211> 72

<212> PRT

<213> Homo sapiens

<400> 308

Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Glu Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 309

<211> 72

<212> PRT

<213> Homo sapiens

<400> 309

Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Leu Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe

50	55	60
Gln Ser Ile Pro Ile Gly Ala Ser		
65	70	

<210> 310
<211> 72
<212> PRT
<213> Homo sapiens

<400> 310
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ser Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 311
<211> 72
<212> PRT
<213> Homo sapiens

<400> 311
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Leu Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 312
<211> 72
<212> PRT
<213> Homo sapiens

<400> 312
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ser Ser
65 70

<210> 313

<211> 72
<212> PRT
<213> Homo sapiens

<400> 313
Arg Lys Ser Thr Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 314
<211> 72
<212> PRT
<213> Homo sapiens

<400> 314
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Gly Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 315
<211> 72
<212> PRT
<213> Homo sapiens

<400> 315
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Ala Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 316
<211> 72
<212> PRT
<213> Homo sapiens

<400> 316
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu

1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Ala Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 317

<211> 72

<212> PRT

<213> Homo sapiens

<400> 317

Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Ala Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 318

<211> 72

<212> PRT

<213> Homo sapiens

<400> 318

Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Ala Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 319

<211> 72

<212> PRT

<213> Homo sapiens

<400> 319

Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Ala Val Lys Ile Phe

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Gln Ser Ile Pro Ile Gly Ala Ser		
65	70	

<210> 320
<211> 72
<212> PRT
<213> Homo sapiens

<400> 320
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Ala Ile Gly Ala Ser
65 70

<210> 321
<211> 72
<212> PRT
<213> Homo sapiens

<400> 321
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ala
65 70

<210> 322
<211> 72
<212> PRT
<213> Homo sapiens

<400> 322
Arg Lys Ser Ser Ser Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 323

<211> 72
<212> PRT
<213> Homo sapiens

<400> 323
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Leu Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 324
<211> 72
<212> PRT
<213> Homo sapiens

<400> 324
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Thr Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 325
<211> 72
<212> PRT
<213> Homo sapiens

<400> 325
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Gly Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 326
<211> 72
<212> PRT
<213> Homo sapiens

<400> 326
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu

1	5	10	15
Pro Asp Glu Phe Leu Gln Ile Lys Ser	Leu Val Leu Asp Gly Pro Ala		
20	25	30	
Ala Leu Asp Gly Lys Met Glu Thr Ser Asp Val Ile Val Ser Val Asn			
35	40	45	
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe			
50	55	60	
Gln Ser Ile Pro Ile Gly Ala Ser			
65	70		

<210> 327
<211> 72
<212> PRT
<213> Homo sapiens

1	5	10	15
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Asp Glu			
20	25	30	
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Lys			
35	40	45	
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe			
50	55	60	
Gln Ser Ile Pro Ile Gly Ala Ser			
65	70		

<210> 328
<211> 72
<212> PRT
<213> Homo sapiens

1	5	10	15
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Asp Glu			
20	25	30	
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn			
35	40	45	
Asp Thr Cys Val Leu Phe His Thr His Ala Gln Val Val Lys Ile Phe			
50	55	60	
Gln Ser Ile Pro Ile Gly Ala Ser			
65	70		

<210> 329
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<213> Homo sapiens

1	5	10	15
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Asp Glu			
20	25	30	
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn			
35	40	45	
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Asn Val Lys Ile Phe			

50	55	60
Gln Ser Ile Pro Ile Gly Ala Ser		
65	70	

<210> 330
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<212> PRT
<213> Homo sapiens

<400> 330

Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu			
1	5	10	15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala			
20	25	30	
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn			
35	40	45	
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe			
50	55	60	
Gln Ser Ile Pro Ile Ser Ala Ser			
65	70		